Three Great Guns

THESE THREE PISTOLS hang in the den of a man in Hartford, Connecticut.

All three look more or less alike. Yet they were designed for completely different uses.

Take the one on top. That is known as the Colt "Peacemaker." This .45 caliber model of 1873 helped preserve law and order in the Old West. It was absolutely dependable, so rugged that it seldom needed repairs, an important consideration where gunsmiths were scarce.

The next one is known as the Colt "Wells Fargo Model." This gun was designed for the fast-mounted express riders who protected the mails from highwaymen and Indians. It was of .31 caliber, with the loading lever left off to save weight. Because of its lightness it was preferred by these men to whom speed was everything, and who counted every ounce.

Below them is another famous revolver, the Whitneyville Walker Colt. Captain Sam Walker, of the Texas Rangers, helped to design this revolver.

At the beginning of the Mexican War, his Rangers had dangerous work to do and he knew they needed a stronger, more deadly arm. The result was this impressive weapon sometimes known as the "First Dragoon Model." It was of .44 caliber, 15½ inches over-all length, and the heaviest gun in the history of the Colt revolver.

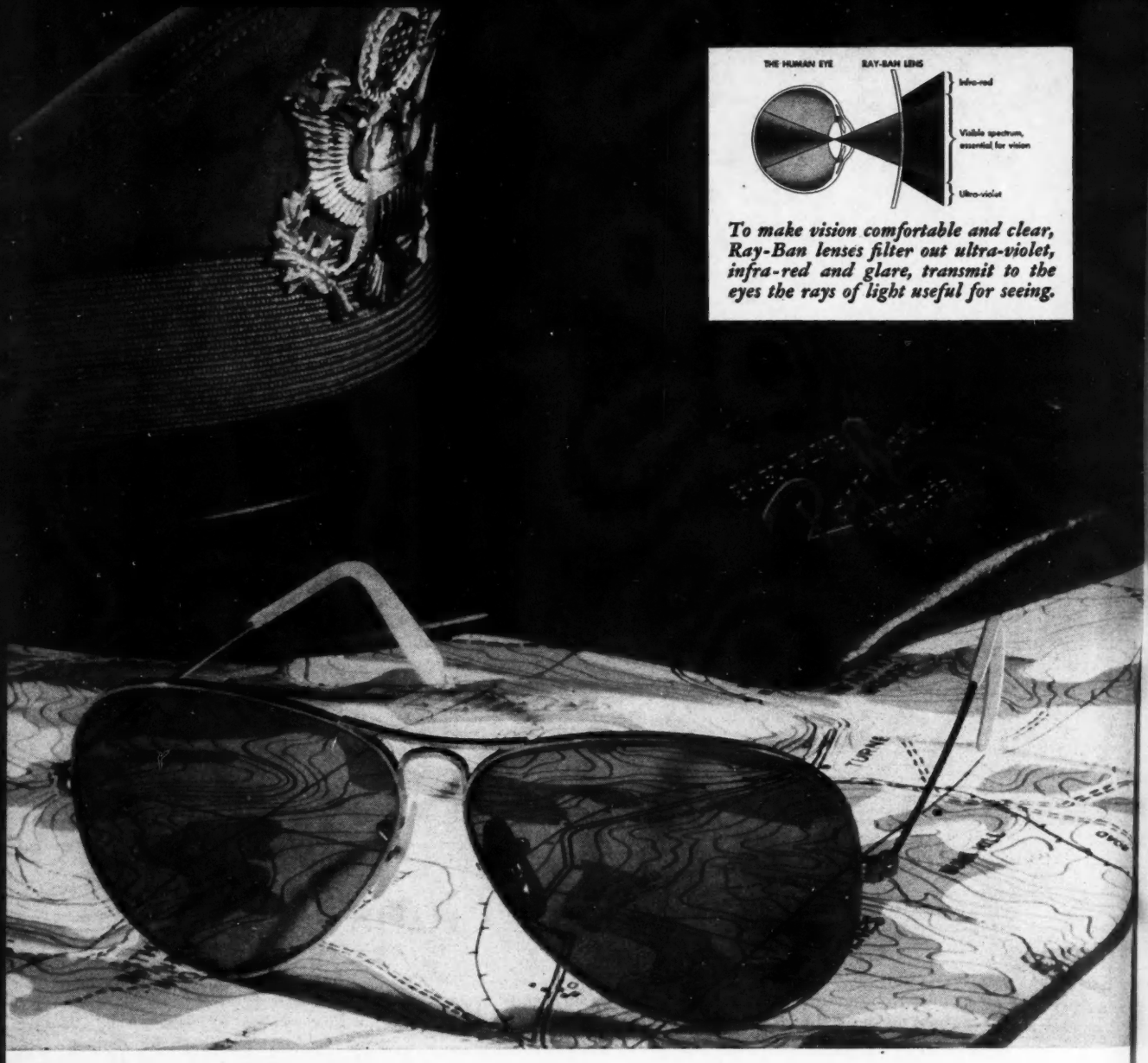
Each of these pistols, you'll notice, had the qualities to meet a special purpose. The men who used them made their choice accordingly.

In the protection of your home and your property, you are called upon to make a choice of weapons, too. The weapon you use is insurance. And the type of insurance you select is very important. To choose just the right type is sometimes a difficult problem for the man who has not made insurance his business.

One way you can be absolutely certain that you make the right choice is to call in the Travelers agent or broker nearest your home or office.

He has had great experience in providing exactly the right types of policies for hundreds of men and women. He knows what kinds you should and should not have. The defense of your home and your property must be the best. Let the Travelers man help you make sure that it is.

MORAL: Insure in The Travelers. All forms of insurance and fidelity and surety bonds. The Travelers Insurance Company, The Travelers Indemnity Company, The Travelers Fire Insurance Company, Hartford, Connecticut.



To make vision comfortable and clear, Ray-Ban lenses filter out ultra-violet, infra-red and glare, transmit to the eyes the rays of light useful for seeing.

Scientific glare protection... for your flyers

When your boy starts on a daylight bombing mission, or gets into a fight above the clouds, he needs more in front of his eyes than "colored glasses." He needs safe, scientific protection from punishing glare—lenses that filter out ultra-violet and infra-red. Ray-Ban Sun Glasses give him a cool, sharp, instantly clear view of enemy landscape or enemy planes.

Ray-Ban is the name of a type of glass created by Bausch & Lomb for exactly that sort of performance, and made to government specifications to meet the needs of American military aviation. For twelve years Ray-Ban lenses and Ray-Ban Sun Glasses have been used to equip the Army and Navy. And thousands upon thousands of civilians have found in Ray-Ban's comfortable, scientifically correct glare protection the perfect answer to eye distress, the ideal glass for outdoor wear.

Ray-Ban visual comfort and efficiency will be available to more millions—after Peace. For today, with Ray-Ban production at a record high, all are going for military use. Along with Bausch & Lomb binoculars, anti-aircraft height-finders, photographic lenses, eye-examination instruments, industrial optical equipment, Ray-Bans are helping to arm the Allied Nations for Victory.

Here, again, optical science is *seeing it through.*

BAUSCH & LOMB
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AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

The *Official Journal of The National Rifle Association of America*

AMERICAN RIFLEMAN

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F. C. NESS, *Technical Editor* — C. M. PALMER, JR., *Associate Editor*
E. B. MANN, *Associate Editor* — J. T. BERRYMAN, *Art Director*
L. Q. BRADLEY, *Circulation—Advertising*

Official U. S. Marine Corps Photo

THE COVER: THE RIFLEMAN is proud to present as the subject of its March cover one of our very own—that great Marine, great rifleman, and great American, Brigadier General Merritt Edson. This fine Official U. S. Marine Corps portrait shows General Edson most appropriately against a backdrop of a world at war. On page four, in a message addressed directly to RIFLEMAN readers, General Edson re-states the pet Marine Corps creed of marksmanship. To him, and to all Leathernecks everywhere, our gratitude!

THIS MONTH

"U. S. Rifleman M-1944," by Brigadier General Merritt Edson, USMC, is a priceless testimonial in support of NRA-Marine Corps preachments on the value of expert individual rifle marksmanship in war. No article ever printed in THE RIFLEMAN has offered more conclusive proof of NRA doctrines, or a finer tribute to NRA service—and no article has been published with greater pride than that with which we give you this contribution from a fellow member.

"Shutyng Notes from the Memoirs of Benvenuto Cellini," as quoted by C. Clark, is a reminder from the classics that human nature and sportsmen's tales have not changed much down through the centuries! You've heard your friends tell just such tales; and, if the truth were known, you've told them, too! So have we all.

" 'Calling All Calibers' North of 54," by H. V. Stent, is a non-argumentative and (we hope) non-provocative report of facts as this writer found them. As the man said when told that he was the father of twins, "Can we help it if these things happen?" They do; and Stent's research concerning them provides RIFLEMAN readers an entertaining story.

"Building a Navy of Riflemen," by Lieutenant Commander Thurman Randle, is another of our series on NRA men and the work they are doing in the various branches of the service. This one shows NRA's newly-elected president himself teaching small arms marksmanship to Navy "boots."

VOLUME 92 — NUMBER 3

MARCH

U. S. Rifleman M-1944 4
BY BRIG. GEN. MERRITT EDSON

Shutyng Notes from the Memoirs of Benvenuto Cellini 8
BY C. CLARK

"Calling All Calibers" 12
BY H. V. STENT

Modern Cartridge Design 14
BY HARRY O. DEAN

Listen, America! 15
AN EDITORIAL

Building a Navy of Riflemen 16
BY LT. CMDR. THURMAN RANDLE

NRA Directors Meet 20

Letter From London 20
BY BILL SHADEL

Slow and Easy Does It 22
BY JAMES FEERICK

Scope Mount for Clip-Loaders 26
BY HOBART S. WHITE

Simplified Small Arms Ballistics 27
BY THE OLD COACH

Powder Smoke 29

Dope Bag 35

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U. S. RIFLEMAN M-1944

From an interview with

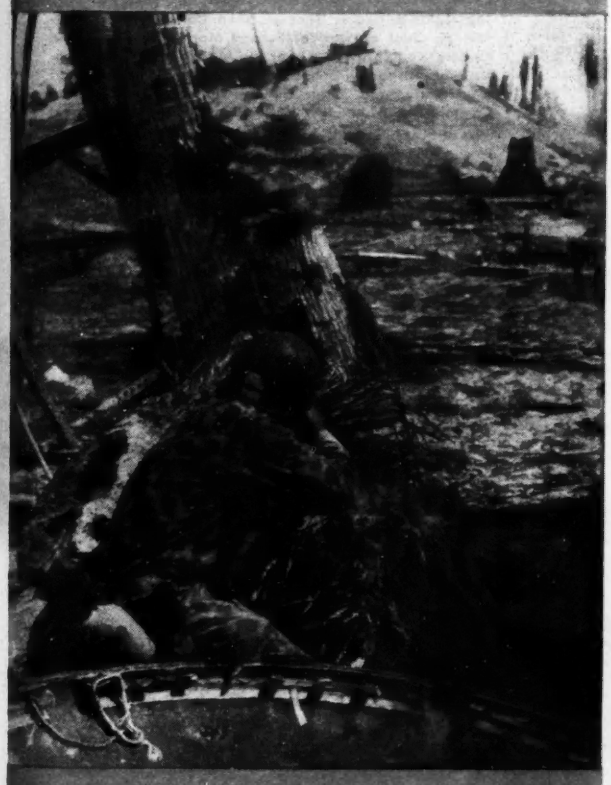
BRIG. GEN. MERRITT EDSON, USMC

"WHAT DO I THINK of the American fighting man? I think he's tops—potentially. Properly trained, he's better than the Jap, I know. They tell me he's better than the German, too; and I believe it. I believe that, basically, the average American lad is the best raw material there is from which to shape a fighting man. All he lacks is enough of the right kind of training. And the foundation of that training is—marksmanship!"

Few men are better qualified to speak with authority on the subject of American prowess in battle than is Brigadier General Merritt Edson, whose First Marine Raider Battalion has been the spearhead of the Allied march northward through the atoll-studded South Pacific. Few men in all history have seen fiercer fighting, or fighting under more adverse conditions. Edson's appraisal of the men who did that fighting is not an opinion based on mere theory. It is a cool, considered judgment based on eyewitness experience.

General Edson looked out of place, I thought, in a Washington hotel dining room. This man with his steel-blue eyes, with his rows of ribbons topped by the pale blue one with five stars that represents the Congressional Medal of Honor, with his Distinguished Rifleman's Medal proudly displayed—this man

Marines leave their precarious beachhead, going over Jap-built coconut-log barricade in the face of withering fire. This photo, taken from water's edge, shows narrowness of beach. Officer and non-com casualties were high here as they led the attack over the wall.



From the scant protection of a blasted tree a Marine sniper picks a Jap target in shell-torn pillbox just ahead. Shooting like this, through narrow portholes in enemy emplacements, requires accurate marksmanship. The Marines had what it took, and they took Tarawa.

carries himself like one on an errand, impatient at the delay that errand has caused, eager to return to a more familiar stage.

He *is* eager. He said, "Time's short. I'm leaving the day after tomorrow." His eyes gleamed as he said it. I said, "It's a more interesting war out there than this one here in Washington, isn't it?" He said, "More interesting—and easier!"

But he didn't win that blue ribbon with stars, or those other stars on his shoulders either, because that war out there is easy. He won them, together with the British D. S. O. and other citations, because he is one of the world's best fighting men and because he has built one of the world's best fighting units. He likes action, and he is on his way back to action. That's why his eyes lighted up as he spoke of going.

"Understand, the American is not a top-notch fighting man just as is. He's urban. He may be a country boy, off a farm, but in most cases he's just a city slicker when he's thrown into the island jungles. Few American boys today are woodsmen. Few are riflemen, either. The legend that Americans are just naturally crack shots and Indian scouts is one that needs dispelling. Maybe his ancestors were both, but he's not—unless he's trained. Train him and he can be tops. The only thing is, he's got a long way to go in the matter of training, in a short time. The Japs have been preparing for this war a long time. We haven't. It's lucky for us that we learn fast!

"And we do learn fast. We're individuals. Americans are bred and trained as individuals, to think for themselves. We're not bound by a lot of preconceived notions; or if we are, we're mentally agile enough to dope out a new course of action when those notions are exploded. The Jap isn't able to do that. His whole world is built on fixed notions; notions of Japanese

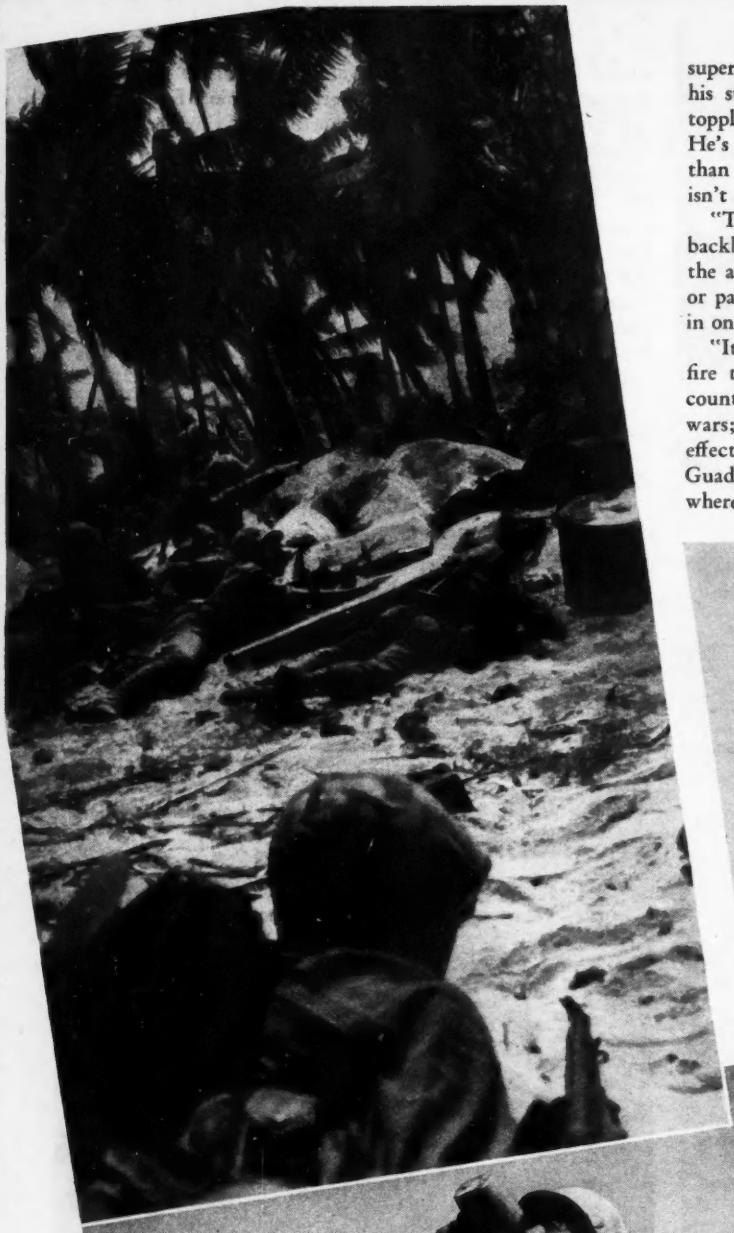
One Marine tosses grenade to cover teammate carrying ammunition.

The picture on the opposite page needs no caption. It is the goal toward which all training aims: the Riflemen, victorious in war!

superiority and invincibility. He thinks that the plans made by his superiors can't fail. When they do fail, his whole world topples around him and he isn't able to act on his own initiative. He's no superman, by any means. He's no better woodsman than our men, except when he's been trained longer; and he isn't even potentially as good a rifleman.

"That's bad for him, because the individual rifleman is the backbone of every army. Everything else—the tanks, the planes, the artillery, even the Navy—are supporting arms to back up or pave the way for the man with the rifle: the man who goes in on his own two feet, to take and hold the ground.

"It is rifle fire that ultimately takes ground, and it is rifle fire that holds it after it's taken, by throwing back enemy counterattack. The man with the rifle is the man who wins wars; and accurate fire from individual riflemen is the most effective factor on any battlefield. We've proved that, on Guadalcanal, at 'the Ridge', at Tulagi, at Tarawa, and everywhere we've gone into action, in this war and in wars past.



Top left: With the smoke of grenades and enemy guns swirling under the trees ahead, Marine squad leader points out source of enemy fire to riflemen spearheading the advance.

Lower left: The fighting was hot on Tarawa! This warrior, festooned with grenades and ammunition, takes time for a drink while his buddies keep eyes peeled for Jap snipers.

Lower right: Marines on Tarawa crawl into position for attack on the airport. Armed with rifles and automatic weapons, they picked off Japs until the field was won.

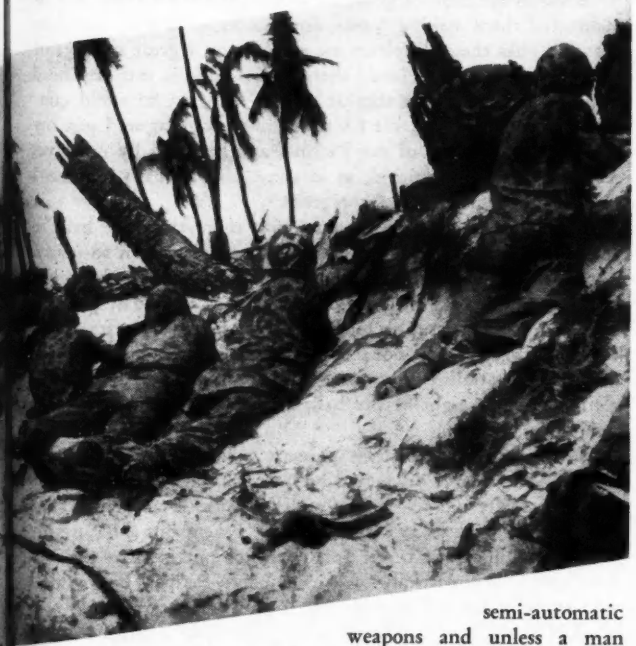
Top right: Brigadier General (then Colonel) Merritt Edson, as Chief of Staff of Second Marine Division ("The Raiders") on Tarawa. Other top Marine officers on Tarawa were Brigadier General Thomas Bourke, in command of Artillery, and Major General Julian Smith, Division Commander, who said, "Here's where rifle training paid off! If our dead hadn't killed Japs before they died, their buddies would never have reached Tarawa beach at all!"

Official USMC photos

"Lots of people have wrong ideas about training men for combat shooting. They stress fire power above accuracy, and they look for some short cut by which they can teach men to be good combat shooters without teaching them the good old fundamentals of basic marksmanship—to hold and squeeze and hit targets at known ranges. In my opinion, that's wrong. Fire power is important, but it is effective only in so far as it is accurate—and the more accurate it is, the less fire power is needed. Teach basic marksmanship first. Given that, a man can devote his whole mind to the meeting of combat conditions without being in doubt of his ability to kill his enemy, once that enemy is met.

"Teach target marksmanship at known ranges first. Then teach the man to estimate his own ranges. Teach him to shoot at indistinct targets, at moving targets. Teach him to scout: to take cover properly, to move properly, to use his eyes to see before he is seen. Teach him then to work as a part of a team: to support his teammates and to make use of the support they give him. But above all else, give him a knowledge of and a confidence in his weapon and in his ability to use it! Given that, he'll learn the other things quickly. Lacking that, a man goes into battle mentally unarmed. His weapons are small comfort to him because he has no faith in them. He is handicapped, because he isn't sure what he can do when he meets the enemy. Give him confidence in his gun and in his ability to use it, and he can devote his efforts to taking care of himself and making contact with the enemy, knowing that when that contact is made, he can make the most of it.

"Too, having faith in his weapons, a man will take care of those weapons. Lacking faith in them, he takes poor care of them, with the frequent result that they don't function properly when he needs them. We saw plenty of that in the Islands. Mud and salt water and coral sand don't improve automatic and semi-automatic weapons and unless a man loves and trusts his weapons, when he's dog-weary he's apt not to bother to clean them. Give him supreme confidence in that gun as the thing that will stand between him and death, and he'll clean it! He'll *(Continued on page 10)*

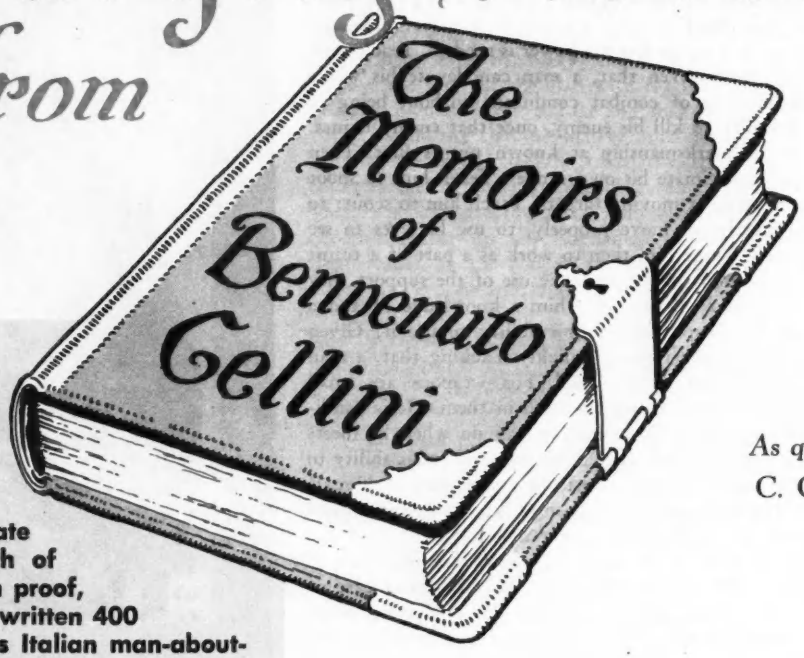


"By any Marine's book, chill-eyed, cool-headed Colonel Merritt Edson is the Corps' ideal fighting man, full of military judgment, cold nerve, and a complete devotion to his troops. He is the classic professional. ◇ ◇ On the Solomons, where he commanded a famous battalion of raiders, 46-year-old Colonel Edson directed his troops with never a flicker of his eyelashes, never a rise in his impersonal voice. Men under fire were braced by his fearlessness.

"For what he did on Guadalcanal, Merritt Edson, one of the Corps' great small arms experts, won the Congressional Medal of Honor and the British D.S.O. to add to a string of ribbons already long. ◇ ◇ In the lashing fire of Tarawa his Marines saw him again, arms folded, voice still calm.

"Marines learned recently that Merritt Edson has scored again. To the Senate for confirmation went his appointment as Brigadier. For most leathernecks' money, it was about time!"—Time Magazine, Dec. 27th.

Shutyng Notes *from*



Tall tales of tack-driving accuracy at incredible ranges—of "doubles"—of super guns and wonder loads—such stories are not new. They date back to the very birth of the shooting game. In proof, we quote some stories written 400 years ago by a famous Italian man-about-town, artist, shooter, and raconteur par-excellence; yarns that match, almost verbatim, the tales we shooters tell today!

As quoted by
C. CLARK

BISHOP HUGH LATIMER, whose opinions on "The Arte of Shutyng" were quoted in the December RIFLEMAN, was not the only great man of that era who was interested in gunnery. Another ardent musketeer was Benvenuto Cellini (1500-1571), a roistering blade (a very devil with the girls, forsooth!) whose work as a sculptor and goldsmith insure him a place among the world's great artists, and whose "Memoirs" qualify him as one of the world's great story tellers.

No modest man was Benvenuto Cellini, and he had never heard (or else refused to heed) the pious opprobrium now directed at the man who "kisses and tells." He kissed, frequently and (by his own admission) well! And told, with no attempt at all to play down his own prowess. The same lack of undue modesty appears in his tales of his skill as a gunner. In fact, Cellini, in his doublet and hose and with his matchlock, firelock, wheel lock, or whatever it was, merits our respect as a charter member of the "hot stove league;" a fact well proved by the following quotations from "The Memoirs of Benvenuto Cellini," as translated by Miss MacDonell and published by the E. P. Dutton Company, 1907:

"At this time, when I was a young man of twenty-three or thereabouts, so terrible a pestilence broke out that in Rome every day many thousands died of it. Being somewhat afraid, I began to take recreation of a kind to my liking, drawn thereto for a reason which I shall relate.

"I was in the habit of going on fete days to the ancient monuments and there making copies, now modeling in wax, and now drawing. As these old places are all in ruins, a great number of pigeons have taken to breed there, and I took it into my head I should like to have a shot at them. So thus, to avoid contact with other people, for I was afraid of the plague, I put my gun on the shoulders of my Paolino, and he and I by ourselves set off for the ruins; and, as it came about, many a time I returned laden with fine fat pigeons.

"I never liked loading my gun with more than one ball, so that it was by real marksman's skill I brought down so many. My gun I had made myself, and inside and outside it shone like a mirror. With my own hand, too, I made the finest powder, discovering wonderful secrets which to this day are unknown to anyone else. I will not enlarge on the matter, but just give one hint to astonish sportsmen. It is this: that with a charge a fifth of the weight of my ball, it carried two hundred paces point-blank.

"Now although the great pleasure which I got from sport might seem to have distracted me from my art and my studies —and it really did so—yet in another sense it gave me much more than it took away, for every time I went out shooting my health was much the better for it, the air putting fresh vigour into me. I am naturally of a melancholy temper, but while I was amusing myself in this way I grew lighthearted and so I worked the better and with more skill than when I had no distraction from my studies and the exercise of my art. Thus in the end my gun was more of a gain than a loss to me."

Would you believe that that was written more than four hundred years ago? Human nature hasn't changed much, has

it? Even then the boys were bragging about their "wildcat" loads, how they'd shoot flat at two hundred yards! Even then, men were telling their wives (or, lacking a wife, their diaries) that it really made sense, in spite of appearances, to let the work slide and go hunting! . . . But we digress:

"There was one day in particular—in Ephiphany it was—when we were near La Magliano and evening was coming on. That day a good many wild ducks and geese had fallen to my gun. When I had made up my mind to shoot no more, we turned our faces towards Rome. I called my dog Barucco, but not seeing him in front of me, I turned and spied the well-trained creature watching certain geese that were huddled in a ditch. So I got down at once, loaded my little gun and at a long range brought down two with one ball. I never used to shoot with more; and even when I shot at two hundred cubits, I mostly hit my mark—and this can't be done in any other way. Of my two geese, one was almost dead and the other was wounded and struggling to fly. . . ."

Note the build-up. Note how Cellini stressed time and place, hoping (even as you and I) to make a tall tale believable by placing it in a true and familiar setting! He even relates, a bit further on, how he fell in the ditch and muddied himself while retrieving the birds. This is so unlike him—this picturing himself in an unflattering, even ludicrous position—that we can only suppose that it, too, is a part of his effort to make his story ring true.

Of course, fault-finding minds may wonder how a man could bring "down" geese that were already huddled in a ditch, but what's a misplaced word between liars? Sticklers may cry, "For shame!" too because Cellini shot at sitting birds; but give the man credit, he didn't ram his gun full of pellets. No, sir! One bullet, properly placed, was enough!

He was a first-class competitive shooter, too, was Cellini. He could hold and squeeze when the chips were really down:

"I was shooting behind the palace," he tells us, "at a wood pigeon brooding in a hole in the wall very high up. I had seen a goldsmith, Giovan Francesco della Tacca, a Milanese, shooting several times at the same bird, but he never brought it down. On this particular day the pigeon showed just its head, for it was suspicious after being shot at so often.

"Now Giovan Francesco and I were rivals in shooting wild birds, and certain friends of mine who were in my shop at the time called to me saying, 'Look, up there is Giovan Francesco della Tacca's pigeon at which he has shot so often. Now see how suspicious the poor creature is, that it will hardly show its head.' Raising my eyes, I answered, 'That little bit of head is mark enough for me if the bird waits till I get aim at it!'

'The gentlemen declared that the inventor of the gun himself could not do it but I insisted. Go and fetch a flask of mine host Palombo's good Greek wine,' said I, 'and I wager if the bird but waits till I cover it with my wonderful Broccardo (so was my gun called) I'll hit that little bit of head it shows.' Then taking aim, without any rest for my arms, I did what I had promised."

But of course! No teller of tales as experienced as Cellini ever told of a miss in such a case, with bets all laid and the enemy a business as well as a sports rival! Poor bird; its head was forfeit to Cellini's triumph. It died, as tons of other game has died—of evenings, round a cozy fire!

But Cellini was more than a marksman; he was an inventor; an inventor, moreover, of a product we could use today:

"In the place where we were lodged," he states, "the air was bad and, as summer came on, we were out of sorts. During our indisposition we wandered about, examining the demesne which was very large and left wild for nearly a mile of open country; and there were a great number of tame peacocks bred like wild birds. When I saw this, I loaded my gun with a certain noiseless powder and lay in wait for the young ones . . ."

You need not be told, surely, of the slaughter that resulted. To a man who could hit a pigeon in the eye as previously related, a peacock is a moose! And with noiseless powder—!

What a boon that powder would be to our snipers in the South Pacific! What a boon it would be to us all! No muzzle-blast, no flinch, no jerking when a neighbor's gun cracks . . .

But we dream! Maybe Cellini made such a powder, but if he did, he died with its formula locked in his own fertile brain, leaving to posterity only his comparatively minor masterpieces in gold and marble—and his Memoirs!

U. S. Rifleman, M-1944

(*Continued from page 7*)

clean it *first*, and worry less about his own ills for having done it.

"Teach him to shoot before he ever goes into the service. Teach him to shoot again, after he's in. Teach him to shoot, again and again, every chance you get. Give him refresher courses. 'Frequent application of the seat of the man to the seat of the saddle' is a good way to make a rider; frequent practice is the only way to make a good shooter. Teach men to correct errors made in battle by means of target-range practice, and pretty soon they'll be using target-range skills in battle. Once you get them doing that, you've got an army!

"Naturally, in view of all the wild tales that have been told and printed, everybody wants to know what's the real truth about the Jap: is he a super fighting man, immune to fear? No. Generally speaking, to us he seems just a savage with a damned thin coat of veneer. Even that thin coat, while it may be his idea of civilization, isn't ours. He doesn't think the same, react the same, as we do. He's not immune to fear. You'll hear him whimpering in his dugouts—abject with fear—yet often enough he'll stay right there and die before he'll surrender. Maybe that's because he's been told that we'll torture him if he surrenders; more likely it's because it's been ground into him from babyhood that life wouldn't be worth living once he lost what he calls 'face.' He's a strange beast, psychologically, by our standards. He's a wicked fighter—so long as things go according to plan. Balk him and he's bewildered. He's been taught that he couldn't be stopped. Stop him and he's confused. He lacks the background of individual initiative that would enable him to make a new plan.

"He has been taught, for example, that he is the only man in the world who excels at hand-to-hand fighting. With knives, swords, or at jujitsu, he's a tough man in a brawl. But when he comes face to face with other men, white men, who can charge, who can in-fight, who can wield the bayonet or the knife, who can fight like hell with hand grenades or fists or whatever's handy—he's amazed! And while he's amazed, he dies. Because a man doesn't stay amazed very long, in that kind of fighting, and live!

"One thing the Jap has learned superlatively is to dig in. He has taken our own engineering manuals and learned them verbatim. What's more, he does what they tell him. He has an infinite capacity for taking pains and he thinks it's worthwhile to build bunkers the way the books say to build them. We don't. Our boys will scratch gravel like terriers while the planes are overhead; but as soon as the planes are gone, they stop digging. Their attitude is, "Why dig in here? We won't be here long! Let's get going and get this war won!" It's a fine brave attitude, but it costs lives. Without taking away any of their offensive spirit, our men need to be taught to take cover, if it's there, and if it isn't there, to dig.

"The Jap has copied a lot of things from us. Maybe he copied his Marine Corps from ours; I don't know. But I do know that his Marines stress marksmanship, just as our Marines do. The Jap Marine was the first Jap fighting man to hit us with really accurate and deadly rifle fire. On Guadalcanal, Jap snipers were numerous and annoying but a big percentage of their shots would miss. It was different at Tarawa! And I knew why. I was in Japan, years ago, and saw them training those Marines to shoot. They were giving them three days of range practice a month then, and that practice got results.

"We are better armed, on the whole, than the Jap. Our M1 Garand and Carbine are satisfactory weapons, as good or better than those of our enemies. We had a decided edge over the Jap in the matter of rifles in the beginning, when he was using his .256; but he soon realized that fact and is changing over now as fast as he can to the heavier .303. Our accuracy with weapons leaves a lot of room for improvement but it is better, on the average, than his. Only in one respect does he have a decided superiority over us, and that is in the matter of gunpowder. His is flashless and smokeless. That's a big advantage in jungle fighting. You can be under punishing fire and not be able to discover its source. That is costly, and it is demoralizing.

"Not that we demoralize very easily; we don't. The Jap found that out in the jungles. He thought we'd crack under the strain of the eerie jungle tactics he had found so effective in his earlier fighting: weird noises, yells, men sneaking into night encampments to stab men in foxholes. He thought white men couldn't take it. He knows better now. We could take it. It was hell, but we could take it—and dish it out!

"But it takes training to make men fit for that kind of fighting. What our men need is more and better training in marksmanship and in woodcraft. They must be taught to enter the jungle, or the desert, or the Arctic wastes, with eyes trained to see, ears trained to hear, even with noses trained to smell. You get so you can smell a Jap—and he isn't fragrant! Find him, and shoot him; that's the formula. You've got to be able to do both.

"I believe in marksmanship. If I hadn't believed in it before, I would now, because I've seen it proved. Accurate

This picture shows a team of Marines ambushed by Japs on Bougainville. One Marine killed from ambush here lies at left hand lower corner of picture, face half hidden by down-slanting rifle. There are Japs behind tank and in woods to left and right. Under cover of rifle fire from three Marines in rear and machinegun fire from tank just nosing into right side of picture, Pfc. Bob Lansley, of Syracuse, N. Y., advanced, killed Japs behind tank. Jap sniper in tree beyond tank escaped notice long enough to kill one of the men in this picture. It was his last shot; fast answering fire blasted him from his perch. Picture was taken by Pfc. Philip Scheer, USMC.

rifle fire is the surest way, short of direct hits with heavy weapons, of reducing enemy machine gun emplacements, enemy bunkers. Here's how it works:

"The Jap posts snipers to guard his emplacements. Our snipers knock off his snipers. That takes keen eyes, woodcraft, and the ability to hit him when you see him.

"Next, we concentrate on his firing ports: the holes in the bunker or emplacement from which he shoots. Accurate shooting can close up those ports pretty effectively. While that's being done, a few men close in. Then those men shoot while others move up. You see what I mean about working in teams. One man's accurate fire covers the advance of another man. It works. But if one man's fire isn't accurate, the man he's trying to cover suffers.

"The outstanding troops on Tarawa were our scout-sniper platoons. These were made up of expert riflemen, expert scouts, working in carefully organized, carefully trained teams. They were armed with Marine sniper rifles: Springfields, with telescope sights. Those scopes might surprise you. Lots of them were long, target-type, eight-power instruments, with wide fields. Some were hunting scopes. In either case they were damned effective! Those boys didn't waste a lot of ammunition; they held and squeezed. When they fired, Jap rifles stopped cracking. That's better, even, than scoring a V on the range! But scoring V's on the range is the way to learn to do it!

"There has been a lot of discussion, pro and con, about our Carbine. In my opinion it's a good weapon, for the use for which it is intended. It can't replace the rifle; it hasn't the long-range accuracy, nor the penetration. But it's fast-handling, and it will get a bullet into a Jap in a hurry, at close ranges. That counts, in close fighting.

"I don't think much of the Carbine as an officer's weapon. I don't think an officer needs a weapon, other than a strictly self-defense weapon. His job is to command. When he starts showing the boys how well he can shoot, his efficiency as a commander suffers.

"I'd say, arm officers with pistols. Other men whose basic weapon is not the rifle might better be armed with pistols, too; such men as machine gunners. A machine gunner has a load to carry. Sling a rifle or a carbine over his shoulder and it handicaps him in the transportation and handling of his basic weapon. When the going gets tough, he's apt to discard that extra burden. The pistol isn't in his way, yet it's there when he needs it. It would be even better if the pistol were carried in a shoulder holster. You get in pretty deep sometimes, in the jungle; it's good to have your equipment high up on your person, dry and out of the way.

"Any weapon that will kill, that fits a specific need, is valuable. I can see plenty of places where the .22 caliber rifle could be used very effectively in jungle fighting, as a sniper's weapon. Ranges aren't apt to be long, in the jungle, and for those ranges the .22, scope-sighted, would be superlatively accurate. It makes little flash, little noise. A sniper armed with it would be hard to locate. And it would do the job. I've heard, unofficially, that one of my junior officers killed a Jap on Tulagi with a Colt Woodsman. It doesn't surprise me in the least.

"I'm probably responsible for the story about the Japs using wooden bullets. We found wooden-bulleted ammunition on Tulagi; lots of it. Men were shot with it. It's short-range stuff, naturally. It makes sense, to me, that men infiltrating into enemy lines, to take our troops from the rear, might use such stuff to lessen the danger of throwing bullets back into their own lines. I can't prove that that was the use for which it was intended; it's just a theory.

"That business of infiltration has been made much of. It's not new; the Jap didn't invent it. It's a natural part of the kind of fighting we're doing. In such terrain as that encountered in the South Pacific it is impossible to prevent infiltration; small parties can always get through, or they can lie hidden until our advance has passed and then snipe from the rear.

"The point is, it's always small parties that infiltrate. Enemy fire from the rear is annoying, frightening. It gives troops a sense of insecurity, of some failure in their own organization. But once troops learn that infiltrating forces are always numerically weak—that once the main job is done it is relatively easy to consolidate your position and mop up the annoyances behind you—the worst effect of infiltrating tactics is lost.

"With the Japs, infiltration is pretty much a suicide game. We have worked it out differently. Some of our scout-sniper teams have worked behind the enemy lines for days, even weeks, taking a toll of enemy personnel, bringing back valuable information. That is infiltration with a purpose. The Jap does it mostly for its nuisance value.

"Night fighting has played a big part in the campaigns in the South Pacific. That was another thing the Jap thought the white man couldn't take and certainly couldn't do. We could, and did, do both. The thing to remember about night fighting, whether you're on the receiving end or vice versa, is that it has to be shallow in depth and that it must hinge on major terrain objectives; landmarks that can be identified easily and without fail in black darkness. Night advances, except under rare conditions, must be short, must follow or focus on or somehow be guided by some large feature of the terrain such as a stream, a ridge, something troops can find and identify in the dark. Control—that is, keeping in contact with and in control of the various units engaged—is a major factor in all fighting. It is immensely more difficult at night. Knowing these limitations, night fighting can be more easily met and more ably planned.

"There has been much discussion, too, of the Tarawa landing. That was a costly victory. But it was a necessary step in our march back to Bataan, to Tokio. We weren't surprised, at Tarawa. We knew all that it was possible for us to know about the island and its defenses. The way was smoothed for us as much as it was possible to smooth it. What was left was our job, and we did it.

"There are other jobs ahead, tougher than Tarawa. You people had better know it, and face it. There are other islands where the Jap has had longer in which to prepare, to dig himself in. But we'll take them, too, when the time comes.

"Meanwhile, the NRA is doing a fine job in its pre-induction training program. Keep it up. Bear down on it. Teach more men. If men already taught aren't drafted immediately, persuade them to go through the course again. Teach them the basic, fundamental principles of rifle marksmanship. Above all else, instill in them confidence in the rifle and in their ability to use it! Give them that and we'll make combat shooters of them! Give them that, and we'll take those islands—and we'll take them at a smaller cost because of that training!"

"CALLING ALL CALIBERS..." ....NORTH OF 54....

by H.V.Stent

MEN, SO THEY SAY, grow weaker, softer, as the generations pass. You've heard old-timers talk of the good old days, "when men were men;" the days of "iron men and wooden ships." Today's men are mere boys, they tell us, beside the legendary giants of the past.

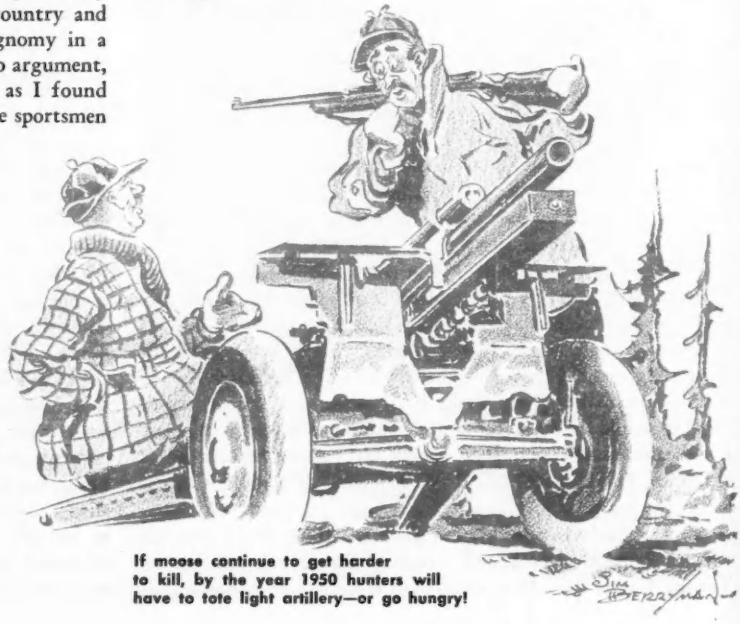
But moose—are different! Moose grow tougher as the years go by. Our grandsires killed 'em with .30-40's. Our fathers poleaxed them with .30-'06's. But today's moose will succumb to nothing less than a .300 Magnum or a .375. . . . Or—will they?

Understand, please, that this is no attempt to carry on the argument that has been raging for years over "midgets versus Magnums" for big game. The question of what gun it takes to kill a moose has been settled by every rifle authority in every magazine devoted to guns and gun sports in this country and abroad, and far be it from me to risk my physiognomy in a mêlée so ably fought from so many sides! This is no argument, for or against. It is merely a report of the facts as I found them about the guns actually being used—not by the sportsmen who travel "north of 54" on expensive safaris, chaperoned by guides, armed with the latest marvel of the gunmaker's craft, to fetch home a trophy—but by the guides, prospectors, trappers, and settlers who live in moose country and kill moose for meat with which to supplement their daily bread. What guns do they use?

The answer is—those men use the guns they have, sometimes the guns their fathers had before them; and they kill moose. Some of the old-timers have killed a hundred or more moose in the course of a lifetime in moose country; killed them mostly with one shot, not for sport but when the failure of that shot might mean meatless days.

And I have found that, throughout the north woods of Canada, the greatest moose country in North America, the most popular moose guns among resident hunters are—the .30-30, the .32 Special, and the .303 Savage.

Let me repeat, this is no argument. I'm not saying that these are the best guns for moose, or the worst. But I do contend that it's high time we stopped thinking of the .30-30 type of rifle as a toy. I know personally of several head-shot moose dropped by a single .22 long rifle bullet; and of two others which were shot through ribs and lungs with the same bullet and did not go over a hundred yards. In each case one shot did the business. I've had heated arguments with old hunters who argued that the .22 Hornet was a swell moose gun. They finally agreed, politely, that they must have meant the .22 Hi-Power; but there was a twinkle in those wise old eyes as they made even that concession that left me with the uncomfortable feeling that they knew far more about moose hunting than I did.



If moose continue to get harder to kill, by the year 1950 hunters will have to tote light artillery—or go hungry!

Personally, I've known of too much game, from moose to jack rabbits, that got away after being shot with the .22 rim fire for me to recommend or even consider it, or the .22 Hornet either, for moose. Use of such guns is illegal as well as unsportsmanlike. But—in expert (and lucky) hands, a .22 *can* kill a moose with one shot. Just compare a .22 rim-fire cartridge with a .30-30; compare the size of the bullet and of powder chamber; look up the comparative energies. And then quit kidding yourself that the .30-30 users must shoot a moose several times in order to stop it.

Don't believe, either, that these backwoodsmen use these guns because they don't know of better ones. I know that a man who has spent twenty years in the moose woods will often have used many different rifles in that time. And the exasperating thing about such men is that instead of extolling one or two above all the rest, they often appear equally well pleased with them all. Perhaps the answer is that it isn't the gun—it's the shooter.

Stan Ray brought up his sturdy settler's family on moose meat so exclusively that they all think that beef is poor stuff compared to it. He used a .30-'06, a .22 Hi-Power and a .30-30, and killed moose with them all. Two of his sons have a combined bag of forty moose downed by the .22 Hi-Power and a .30-30, respectively, and no complaint of lack of power in either case. The third son, Jim, has a .303 Savage and, although his shooting partner has just got a brand new .300 Savage, Jim himself shows no desire for a change. I made a point while living in the North of getting, too, the opinions of men who used more modern and powerful guns. Art Goodwin, one of the old-timers of northern British Columbia, has a .270 Winchester carbine. I asked him how he liked it.

"It's a good gun; awfully handy in the bush. Seems to kill fine, although I think the light bullet sometimes blows up on brush. I wouldn't have quit using my old .30-40, though, if she hadn't worn out. There was a dandy gun; always reliable. I've shot a deer in the hip with it and the bullet came out its chest; and on moose I rarely needed more than one shot."

This respect for the .30-40 seems common to every user of that gun. All agree that it and its companion in power, the .303 British, are excellent killers on moose. I asked Art about the .30-30.

"Oh, the .30-30's all right," he answered. "I remember once when I lost my .30-40 in the bush, the folks gave me an old .30-30. I killed two moose with it, one shot apiece. One of them was plenty far away, too."

Alf O'Meara, forest ranger at Vanderhoof and another experienced hunter, has a Model 70 Winchester .30-'06 with which he is an excellent shot. I questioned him about killing power. He was enthusiastic about his own rifle.

"No question about it, the .30-'06 has great shocking power. It has a knock-down smash that lighter guns lack. If you hit a moose or bear squarely, it's all over but the skinning. I've never lost a head of game after putting one .30-'06 into it."

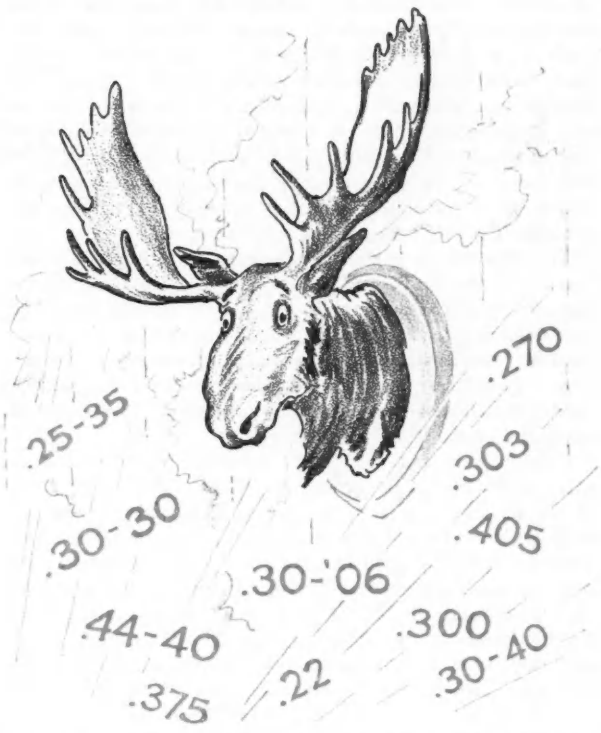
Again I put my question about the "thutty-thutty," expecting to hear the derision for that caliber which usually goes with love for the .30-'06.

"There's nothing wrong with the .30-30," was the prompt response. "It hasn't as much punch as the .30-'06, of course, but if you put your bullet where it ought to go, it will bring down anything you want to shoot at. The .30-30's no popgun. But I've never used one a great deal myself; why don't you ask Ralph Angley? Seems to me he uses a .30-30 and he has had a lot of experience with moose. He's a darned good shot, and you can rely on what he says."

So I talked with Ralph.

"No, Alf's wrong there," he said gently. "It's not the .30-30 I use; it's the .44-40."

Now Ralph Angley is a comparatively young man, not much over thirty, though he is old in the ways of the North. It seemed queer that he should cling to such an old-fashioned, feeble weapon. I asked why he didn't get a more powerful gun.



If you disagree—grin; don't write The RIFLEMAN! We're not recommending .22's for moose—or .30-30's either. In fact, we're not recommending, at the moment! We're just letting Stent tell you how some guys get meat for the table with the gun they happen to own—plus skill.

"More powerful? I'd use a less powerful one if it would kill reliably," he told me. "As long as a gun will kill a moose with one shot, the less meat it spoils and the better it suits me. Do you know that I used a .22 Hi-Power for years and always with full-jacketed bullets to keep from spoiling meat? And I hardly ever needed more than one shot. A moose's brain and spine are a pretty fair-sized target.

"I'll admit there was once when the .44-40 didn't seem powerful enough. That was one fall when the only moose I saw was 300 yards away, and that's hopeless for the .44-40. So I borrowed a friend's .405 Winchester. It dropped a moose fine at 300 yards, and another at fifty, but that was enough. I gave it back and started using my (*Continued on page* 19)

Modern Cartridge Design

By HARRY O. DEAN

LET IT BE NOTED that throughout this discussion all factors are more or less variable and are not applicable to all types of cartridges. A given shape which may prove ideal for one cartridge may prove entirely unsuited to another and may result in a cartridge which is oversensitive to variations in loads, bullet weights, and other variable factors. A particular shoulder type which efficiently handles a certain type of powder may result in incomplete combustion or erratic velocity-pressure variations with another type of propellant. Thus we find that many of the older types of cartridges which were designed for the earlier semi-smokeless and smokeless powders may not react too well with modern propellants.

This, however, is not always the case. The results obtained from more recent designs seem to indicate that our experimenters are on the right track; but, there is always the chance that some unforeseen factor may creep in, in spite of the most carefully considered plans, to upset the experimenter's calculations. From these occurrences he learns a great deal and the science of ballistics gains profitable knowledge. Herein lies the adventure in the study of ballistics.

I doubt very much if much attention was given to the shape of the case in the earliest cartridges. The majority were of the straight type and possessed a slight taper of the case walls to facilitate extraction. The fast burning rate of the early powders gave good results in this type of case and many of these were highly accurate. Famed examples are the .38-55, the .32-40, and the .28-30 single-shot. Some cartridges had a very noticeable taper of the case walls. This made extraction easy, even with the comparatively weak extractors used on many early rifles. Our modern bolt action rifles have a powerful cam action on extraction, and lever, pump, and semi-automatic actions of today also have improved extractors. A certain amount of body taper is still necessary but in modern high-pressure cartridges this is held to a minimum since we want the case walls to expand and exert a frictional grip on the chamber walls. This prevents the case from moving back and increasing the direct thrust on the bolt face or breech.

Looking back on our early cartridge types we find that the trend was toward more speed and smaller calibers. The high-velocity cartridge was being born and the so called "Bottle-neck" cartridge made its appearance. Instead of making small caliber cartridges needlessly long, such as the .25-25, it was found simpler to use a cartridge of larger diameter and neck it down to the desired caliber, thereby gaining powder capacity.

With improved powders it soon became apparent that the slope of the cartridge case shoulder was an important factor in the design of high-intensity cartridges. Until quite recently it was generally accepted that the long, gently sloping shoulder was correct for large-capacity cartridges of the "Magnum" class. However, as velocities increased to higher levels it was found that a long sloping shoulder greatly reduced the bore life in certain calibers.

It is desirable to have the powder charge burn within the cartridge case while the resultant propellant gases impart motion to the projectile. But with the long-shouldered cartridges it was found that the gas pressure in the rear of the cartridge case, where the powder first was ignited, had a tendency to force the remaining powder forward. This powder was funneled through the long sloping shoulder and out into the bore where it completed its burning or else was blown out of the muzzle. As it burned in the bore with intense heat it "washed out" the "throat" and "lead" portion of the rifling. This action is termed "combustional erosion." If some unburned grains of powder left the bore the breech pressure tended to be jumpy and erratic while the muzzle velocity was similarly affected by an abnormal variation.

The use of sharper shoulders should tend to retain the powder within the case during combustion and thereby decrease throat erosion. Of course there are limits to this, too; in many cases it increases the sensitivity of a cartridge to variation in loads. When the designer wishes to use a slower burning powder but wants to insure complete ignition he may resort to a convex, rounded shoulder in an attempt to control "combustional turbulation." The convex shoulder might also be applied to insure complete combustion of a larger powder charge. Thus we find this type of shoulder on some of the standard cartridges whose powder capacity has been amplified for improved results by modernizing their design. Such a shoulder is used on my own "Dean .255" as an improvement on the .25-20 cartridge. I believe Ralph Waldo Miller used it on his "Streamline" series of modernized cartridges and my friend P. O. Ackley has successfully employed it in his "Improved" cartridge series. Its purpose is to turn the combustible gases back upon the charge to make combustion more complete and efficient.

Going back to standard sloped shoulders, we cannot ignore the fine results obtained by Leslie Kilbourne's "K Hornet" and the Donaldson-Risley "R-2 Lovell" cartridge. Jerry Gebby and his "Varminter" are always to be considered when the discussion turns to accuracy. L. E. Wilson tamed the notoriously oversensitive .220 Swift by altering the shoulder and renaming it the "Arrow." The .22 "Blue Streak" was born when Baldwin and Marciante redesigned the .22 Niedner Magnum and amplified its capacity. These are just a few instances. There are many other similar examples of such improvement.

Some of the older types of cartridges have case necks which may appear excessively long. This is because the long heavy bullets originally used were seated deeply, often to cover the lubricant contained in the grooves and protect it from grit. When it is desired to use shorter, light bullets at high velocity this excessive neck length may be reclaimed as additional powder space by moving the shoulder forward and perhaps even altering the shape of the shoulder in the operation. Such cartridges as the .22 Hornet, .25-20, .25-35, and .22 Savage Hi-Power have been thus treated. They responded with improved ballistics and accuracy. This method of amplifying powder capacity and accuracy and perhaps improving shoulder shape is very popular among wildcat designers. Necking down various cartridges is also frequently used to make an improvement. Ned Roberts promoted the very accurate ".25 Roberts" in this manner by necking (*Continued on page 25*)

An Editorial

Listen, America!

EVEN in the midst of a war in which hundreds of thousands of Americans will give their lives to preserve the democratic form of government, proponents of political firearms control continue their propaganda and their efforts to put over local ordinances and state laws.

Listen, America!—to the story of the wives of three men who are offering their lives in the defense of American democracy:

JUSTICE IN JERSEY!

Special to the New York World-Telegram.—Three young, modestly chic matrons who had just kissed their flying husbands goodby at Mitchel Field tried to cheer each other up as they cruised over George Washington Bridge and down into the maze of streets in North Bergen, New Jersey.

Mrs. Ray Ferguson was at the wheel. At Route Three and Tonnelle Avenue a Hudson County prowl car whizzed up beside them. "You made a wrong turn," said Patrolman Anthony Craddock. "Let's see your license."

Mrs. Ferguson promptly snapped open the glove compartment—and everybody stared. Nestling inside, like a cobra in a closet, was a huge, gleaming pistol.

The next scene is in traffic court, Acting Judge James F. McGovern, Jr., presiding. Patrolman Craddock said he had verified the women's story that their Army husbands had just left for overseas, but Judge McGovern set bail at $1,000. each, in default of which he prescribed jail.

Tearfully the defendants asked to spend the night in a hotel under guard, but Jersey justice remained inflexible. *So the three young wives are in jail today, awaiting action by the Hudson County Grand Jury on charges of possessing a dangerous weapon.*

Listen, America!—to the story of two young Americans who had *not* been deprived of the right to "possess and bear arms":

BOYS CAPTURE FUGITIVE NAZIS

Indianola, Neb.—Five German prisoners of war failed in an escape plot Sunday when, after slogging ten miles through six inches of snow, they were captured by two Nebraska farm youths.

Lieutenant Colonel Frederick E. Whitten, commanding officer of the prisoner camp here, said Eugene, twenty-one, and Donald Van Matre, eighteen, had just returned from a dance when, from their bedroom window, they saw the fugitives enter the farmyard.

Recognizing the prisoners' uniforms, Donald held a shotgun on them and ordered them to keep their hands up while Eugene ran outside with another shotgun.

Then Eugene ran a mile and a half to a telephone while Donald kept the shivering Germans at gun point, finally herding his charges into a hen house.

Eugene returned with Claude and Joe Graves, youths from a nearby farm, and the four patrolled the hen house with cocked shotguns until military authorities and several sheriffs and deputies arrived.

(Sam S. Phelps, of Bloomfield, Iowa, who sent us this clipping, adds tersely, *"We salute the good old American right to own and bear arms!"*)

Listen, America!—to the story of what happens to one of our "good neighbors" to the south of our borders when *politicians* dictate who may possess firearms:

ROBIN HOOD IN MATTO GRASSO

Time, January 10.—The State of Matto Grasso is the Wild West of Brazil. Its bad men use tommy-guns instead of six-shooters. Just now the scourge of the Matto Grasso cattle country, north of Paraguay, is a band of tommy-gunners led by three Brothers, Cardoso, Rolin, and Joano Batista.

With fifteen gunners in their train, the brothers Batista, in the last three months, have terrorized a 1,000-mile strip of Matto Grosso and Goiaz. Ranchers have fled into the cities. Local authorities are helpless. Last week a delegation from the rancheros arrived at Rio de Janeiro to beg president Getulio Vargas for Federal troops. *The ranchers could not defend their homes themselves; President Vargas' untrusting government had taken their rifles away.*

Listen, America!—to the story of the condition that exists in the Army of the United States because the policy of most American political leaders has, for a generation, been to discourage our people from possessing or learning to use firearms:

> "I am going to put on a small arms firing school for the forty odd officers at this Post, with the ultimate object of qualifying them all on the range * * *. Most of these officers have never had an opportunity to qualify and their training with firearms has been rather sketchy, therefore will have to start right at the bottom." (From an officer in the Armed Service.)

Listen, America! Think! *Decide* whether a Nation disarmed by its politicians can hope to maintain that democracy for which its sons now die!—C. B. L.

Proof of the scope of the military reawakening to the value of the individual rifleman is the fact that the Navy, too, is stressing rifle marksmanship—to build fighting morale and to teach seamen to use the small arms so vital in support of troops landing under fire.

By NRA PRESIDENT
LIEUTENANT COMMANDER
THURMAN RANDLE

BUILDING A NAVY OF

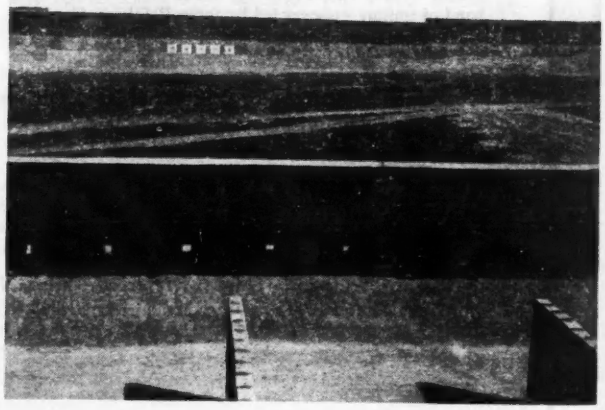
Seated, center, above, is Lieutenant Commander Thurman Randle, newly elected president of NRA, and commanding officer of Navy's unique Sachuest Point Rifle Range at Newport Naval Training Station. Seated at Commander Randle's left and right are the eight other officers who make up the Sachuest staff of instructors. Each of them, too, is an NRA man, drafted from civilian life to teach Navy "boots" to shoot.

Lieutenant Commander Thurman Randle needs no introduction. He has been a (if not the) top-ranking rifleman of America for years. Winner of some seventy trophies and nine hundred and fifty-odd medals in rifle competition, Commander Randle was captain of the United States Rifle Team in 1931 and again in 1937. He was a member of the United States General Pershing Trophy Team in 1931 and its coach in 1937. In 1937, with seven national rifle records to his credit, Commander Randle went "on tour" to win the British All Around Championship at Bisley, England, besides a dozen other British awards and seven French medals. Today, Lieutenant Commander Thurman Randle is still a hot-shot with a rifle. Present holder of the Eastern All Around Championship, won at Quantico just before the beginning of the war, he frequently demonstrates his skill for the benefit of his men at Sachuest. To quote a recent newspaper report, "following those demonstrations, the boys aren't sure 'The Old Man' could knock off a mosquito at a hundred yards, but they are sure that they wouldn't want to swap places with the mosquito!"

Here, then, are a few more of the NRA men who are training the "greatest rifle team in the world"—the United States fighting forces. With them are shown some—not all—of the NRA members now at Sachuest. Instructors say it's easy to pick 'em; just pick the lads who are shooting the highest scores!

THE HUGE RIFLE RANGE of the Naval Training Station at Newport, Rhode Island, is the most complete range in any part of the country or in any branch of the service anywhere. Designed to function in any weather, it offers near-perfect comfort to the recruits training there whether it be zero or eighty degrees, pouring rain, or bone dry. Houses less than a mile away back of the butts are perfectly safe from bullets because of a system of ports and sixty-foot-high backstops which permit no bullets to leave the range. No three-mile safety zone, such as is required elsewhere, is necessary here.

The safety and all-weather features of this range originated



One section of Sachuest range, showing intermediate wall and backstop.

Standing, l-r, page 16: J. L. Collins; H. G. Murray; H. L. Mitchell; R. C. Synott; V. Mendillo; E. W. Webb; M. L. Wolfe; I. R. Gottesman; C. E. Richardson; C. S. Clark; R. L. Huntington; E. Nogiec; R. B. Brown; E. K. Grant; H. S. Amell; J. W. Schotoff; J. Carlson; M. Dannin.—Seated, l-r: W. R. Campbell; J. P. Mendenhall; A. D. Edmonds; A. G. Lundquist; J. C. Berger; L. G. Jeffrey; Lieut. M. A. Greathouse; Lieut. R. B. Whitaker; Lieut. Comdr. Thurman Randle; Lieut. H. A. Danforth; J. E. Lacy; V. L. Massie; F. A. Kent; W. Thurston; E. E. Wood; A. L. DeGroodt.

RIFLEMEN

with the Navy. Plans were originally drawn by the Bureau of Yards and Docks for the Army. These plans were never adopted and no range was ever built by the Army. The plans were pigeonholed and forgotten. When Capt. C. A. Magruder, Commanding Officer of the Naval Training Station at Newport, wanted a rifle range suitable for any weather and safe for use in a settled community, he appealed to the NRA for assistance. From the pigeonhole came the Army plans, to go back to the Navy whence they came. Engineers worked over the plans to suit Navy requirements and to adapt the firing line and butts to fit the land available. Four and a half months later the million dollar plant was complete and in service.

The range is built on 165 acres that was once a potato farm. The ocean is on two sides with a beautiful bathing beach adjoining. The firing line forms a large semicircle with seventy-one firing points at fifty feet for .22 caliber and 201 firing points at 200 yards for .30 caliber, all for basic training of recruits. The firing points are all enclosed and are heated in cold weather. In fifteen months this range has missed but two days' firing. On these two days the temperature was fifteen below zero and the wind was blowing better than forty miles per hour; enough to warrant a "Cease Firing!" order even here!

Firing is through ports at the firing line with intermediate ports at fifteen and fifty feet. Sliding doors are used to close the ports at the firing line when the shooter has finished his string. The butts are basically the same in protection from the weather. The targets are out in the open when up in the firing position but go down into underground houses for marking. It may sound like a setup for sissies, but anyone who has ever tried outdoor firing in a New England winter will agree that heated range houses are essential. Certain it is that they save much valuable training time which would otherwise be lost.

The firing line, butts, and backstops are built in three sections of three, two, and three units each. The first section of three range houses (seventy-one firing points) can be used for small-bore at fifty feet or .30 caliber at 200 yards. The other two sections of five range houses are used for service rifles only. Each of the three sections can be used as a separate range if need be, with safety features so complete that men can move freely out in the open on any other section with no danger whatever of being hit by stray bullets from another section.

Inside the semicircle of the firing line are the buildings and all other equipment.

This picture of range under construction shows semicircular layout.

This range is a complete station in itself. This is necessary because the range is six miles from the Training Station proper and four miles from the City of Newport. Three barracks house the men who are on the range for training, as well as the permanent "ship's company" of 120 men. There is a complete galley and mess hall to care for over a thousand men. It has three large freezing rooms to care for fresh meat, vegetables, and all dairy products, as well as rooms for storage of dry foods and canned goods.

A target repair house has a work shop for building target frames and taking care of all target material. Close by is the armory, complete with cleaning benches, rifle storage racks and a complete rifle repair shop. All these buildings are heated from a central plant, except the range and butt houses which are heated with coal stoves. Four deep wells supply water by electrically operated pumps to an underground storage tank from which it goes to the mains by another pump to furnish ample water for regular use and for fire protection. Bachelor Officers' Quarters are in a comfortable house with accommodations for eighteen officers. An officers' recreation room is housed in another building, along with a large reception room

Commander Randle and aides teach class of Navy "boots" prone shooting.

for the men, as well as a modern picture show for all. There is also a chapel for church services. Nothing has been overlooked that has to do with training men to shoot, taking care of their comfort and at the same time boosting their morale a bit higher. There is a complete sick bay with five beds, in charge of a doctor and two assistants to care for the ailing.

The firing line in a range house is a bit different from the outdoor firing line the average shooter knows. It is an elevated board deck—floor to you who are not in the Navy—seven feet deep and with a system of trap doors that permit different elevations so that the rifle barrel remains at the same level whether the shooter is standing, sitting, kneeling, or prone. This deck faces sliding glass doors that open the ports through which the shooters fire. Back of the firing line are benches for individuals waiting their turn on the firing line.

The communication system is complete in every detail. Each range house has telephone connections with its respective butts. Atop one of the barracks is a central control tower with a teletalk speaker system to each range house and to the range office. Every part of the range is visible from this tower. Each range house has a similar tower always manned during firing so that nobody can come into the line of fire without being seen. A single command from the control tower can stop firing instantly in all range houses. An officer in this tower sees that schedules are followed to the minute.

This elaborate and expensive layout was made with one idea in mind: to train the greatest number of recruits in the shortest possible time. The training methods have been devised with that same objective in view.

The firing period for recruits has been limited to three days. That is not much time, it's true; especially so when close to 90 per cent of the men have never before fired a rifle at a paper target. Yet nearly 65 per cent qualify as Marksman, firing ten shots prone and ten sitting Slow Fire and ten prone Rapid, in strings of five, thirty seconds to the string. A score of 120x150 or better qualifies, and this qualification is shown on the man's service record.

Recruits start on the small-bore range with a three-quarter-hour lecture by an officer-instructor. From the very beginning, safety rules are stressed and thoroughly explained. Then comes nomenclature, sight alignment, use of the sling, trigger squeeze, follow through, and the proper manner to hold the breath. All positions are demonstrated by the instructor or a petty officer coach. The pairing of students, known as the coach and pupil system—is not used here. A trained coach, generally a petty officer, is assigned to each five students and carefully watches and helps his charges all the time. The regular course is fired in practice with the .22 caliber rifle before any .30 caliber firing is done. Firing the small-bore first gives the instructor an opportunity to familiarize the beginner with the piece and to give him confidence in himself in firing any rifle. Qualifications run about 20 per cent less when preliminary instruction is given with the service rifle instead of with its little brother.

In the beginning, all .22 rifles here were M2 Springfields. No more of these rifles were being manufactured and, as these began to wear out, replacements were made with Model 75 Winchesters. As the training program speeded up, more rifles were needed and the Bureau of Ordnance sent in a hundred Model US44 Mossbergs. All three models have given wonderful service.

The old reliable Springfield is the service rifle used. Over half of the original 250 with which the firing started had type C pistol grip stocks just like the match rifles used at Perry. When the schedule became so heavy that more rifles were needed, the new ones furnished were Remington A3 Springfields with peep sights close to the eye. These rifles have the straight grip stocks, but are otherwise about the same as the original ones from Springfield Armory.

Firing with the service weapon begins the second day. Brief reviews are given on safety rules and other basic principles and added instruction is given in Rapid Fire. The Marksman Course is fired twice for practice with five sighters in the prone position. The coaches work right with the men all the time, showing them how to carry out all instructions given in the lectures. On the third day the course is fired again in practice, followed by a fourth time for record. That is a lot of high-power rifle shooting for beginners in two days, but padded mats and shooting coats prevent sore elbows and shoulders.

Safety is the one factor that is never forgotten. A red flag at the entrance gate gives notice to all who enter that there is firing on some part of the range. The same signals are displayed high on the backstops of each section in use with a flag on the watchtower of each range house in use. Inside the range houses are posted NRA safety rule charts so that the recruit has the rules before him at all times just as he heard them in the lectures. Rifles are set in racks on the firing line with the muzzles always pointing toward the targets. With nearly a hundred thousand men trained on this range in fifteen months

Firing points are in building nearest camera. Wall beyond is pierced with intermediate ports through which bullets pass.

with no semblance of an accident—not even an accidental shot through the roof—it looks as if Sachuest Point is living up to the writer's slogan: "The safest place on earth to keep from being accidentally shot is on a well-regulated rifle range."

The NRA has played an important part in the building and operating of this range. Mr. C. B. Lister and Major Fred Moulton acted in an advisory capacity, furnishing much valuable information to the Navy during the construction of the range. It was left to the Association to furnish from civilian life all the officers needed to operate the range. The writer was plucked out of his gun and camera store in Dallas, Texas. Lt. Ray B. Whitaker left his machine shop in Tulsa, Oklahoma, to act as chief instructor and to run the firing line. Lt. H. A. Danforth was a Boston banker. Lt. M. A. Greathouse was a Ft. Worth, Texas, lawyer and Lt. J. B. Connolly, a lawyer from Los Angeles. Next in line was Lt. (jg) E. R. Farren from Houston, Texas, and J. N. Danner, from Chicago. Six Warrant Officers complete the staff of instructors. They are J. C. Berger, Oklahoma; J. E. Lacy, Connecticut; F. A. Kent, New Jersey; G. A. Selkirk, New York; V. L. Massie and L. G. Jeffrey, both of California. All these officers are trained riflemen. Four wear the Distinguished Marksman Medal and six the International Rifle Team Shield.

A class leaving the range, ready, confident in their ability to shoot. (All pictures with this article are from Official U. S. Navy photos.)

State Association presidents of Texas, Oklahoma, and California are among this group. These thirteen officers have won over two thousand medals in shooting competitions. Plenty of background and experience here!

Most of the fifty coaches learned their shooting lessons from the NRA Clubs back home. It has been easy indeed for these men to learn quickly the details of the system used here. It is the old reliable method of instruction used at Camp Perry during the National Matches, with some modern improvements worked out by the NRA staff to fit wartime conditions. Letters that have come back from Sicily, Salerno, and the Pacific, written by men trained on this range, are very convincing as to the value of this training to sailors who may be called upon to use the rifle in support of troops making beach landings.

Interviewing a recruit with an exceptionally high score always produces the same information—that boy was a member of the NRA Club back home. He learned the basic principles of rifle marksmanship there and consequently has a better chance of helping his country win this war and of so protecting himself in battle that he can come home to play once again the shooting game as a sport. It is he who will help most, now and after the war, to make America once again a "nation of riflemen."

"Calling All Calibers"

(*Continued from page* 13)

old .44-40 again. Why, both those moose were shot through the shoulders and the front quarters were so messed up that hardly any of it was fit to use. The .405 spoils too much meat for me."

Moose live usually in dense forest, where they are more often seen under fifty yards than over 200, and most shots are around one hundred yards or less. So sourdoughs don't worry about long-range armor-piercing Magnums. They bide their time, make heart or spine shots for sure kills with the guns they have.

Instead of arguing about killing power, it might be better to get the attitude of these old-timers: that it doesn't matter much what rifle you use *as long as you know how to use it.*

It's true, of course, that the average man can't get the experience of the man who lives in moose country all his life. But he *can* drill into his mind the fixed resolve not to shoot until he has sure aim. He *can* learn what hits will kill, and resolve not to shoot until he can be sure of such a hit.

Practice and familiarity with your rifle helps a lot, too. If your ammunition supply is short, put in plenty of dry practice before going on your hunt. Use large natural marks like stumps, rocks, clumps of grass. Always aim at some certain point on the target. Do your practicing offhand; you aren't apt to have either the time nor the surroundings to enable you to lie down, adjust your sling, and draw a fine bead in the woods even though by so doing you could hit a bull in the eye at 599 yards. The best moose-getter is the man who can get in a quick accurate shot while standing on his hind legs, and be instantly ready for another if necessary.

Probably a shotgun man will be better with a rifle on moose than will a target marksman. Often you have to shoot quickly, and sometimes your target is on the move. Don't let that worry you, however, The mark is a big one, and if you aim at the shoulder and swing with the moose, you can nail him.

For sights, most meat hunters use just the ordinary open sights, sometimes blackening a shiny front bead when there is snow on the ground. Some moose hunters of my acquaintance in northern Manitoba went a step further, and built a ramp behind their front sight, much higher than the ordinary commercial ramp so that only the bead showed above it. They claim that it is so much easier to find your bead in a hurry when it is sitting on top of a broad ramp than when it is just part of a slender blade; and the way they get moose certainly seemed to prove their point.

Whatever your sights and rifle, never forget that your shots must be placed right. And if your gun wavers all over the place when you try to line up a moose, think of the advice old man Hartman gave his son out of a lifetime of hunting North American game, from grizzlies down, with the .30-30 class of rifle. "Son," said ol' man Hartman, "it doesn't matter how steady you hold your gun; it's where she points when you press the trigger that counts!" That's worth remembering!

NRA DIRECTORS MEET

REPORTS PRESENTED before the Board of Directors and the Executive Committee of the National Rifle Association at their Seventy-third Annual Meeting, held in Washington, February fourth and fifth, provided indisputable proof of statements made soon after the outbreak of war to the effect that this Association was one of the very few in the country which had so far anticipated war requirements as to be prepared, in its own field, to meet those requirements.

The first gun at Pearl Harbor signaled the end for the duration of the war of the entire NRA program of competitive shooting. Today, after two years of conversion to full-time, non-profit war work, the Association finds itself in a stronger position than it has ever enjoyed. Financially, and in point of increased membership, 1943 was a record year. With the official approval and support of our Pre-Induction Basic Small Arms Schools by the Pre-Induction Training Section of the War Department and with war leaders everywhere swinging to wholehearted endorsement of NRA preachments of "sight picture" and individual marksmanship, the Association has reached in war an even higher place in public esteem and official sanction than it held in times of peace.

Thirty-four Directors of the Association met February fourth, in Washington, to hear the reports of the year's business, to elect officers, and to formulate Association policies for the ensuing year. Lieutenant Commander Thurman Randle of Dallas, Texas, now Commandant of the Sachuest Point Rifle Range of the Newport Naval Training Station, was elected President of the Association, succeeding Judge Hilliard Comstock of Santa Rosa, California, who has held that post throughout the two past years. NRA members need no reminder of Commander Randle's record as a rifleman and as a leader in the Association's work. Few men are as well endowed to guide NRA affairs as is this hearty Texan, and we look forward to another prosperous year under his leadership.

Lieutenant Colonel F. W. Parker, Jr., was elected to fill the Vice-Presidency just vacated by Commander Randle. Judge Hilliard Comstock and Colonel F. C. Endicott were elected to the Executive Council. The Executive Committee as elected will consist of nine of its present members: Brigadier General Julian Hatcher, Mr. Fred C. Mills, Lieutenant Colonel Payson D. Foster, Mr. Raymond C. Bracken, Mr. Raymond Stritzinger, Mr. E. N. Littleton, Mr. J. W. Woolrey, Lieutenant R. B. Whittaker, and Rear Admiral W. R. Purnell; and three new members: Colonel B. W. Mills, Captain J. M. Rutledge, and Mr. Seth Gordon. Elected to fill vacancies on the Board of Directors were: Colonel B. W. Mills, Director of Civilian Works, Captain J. M. Rutledge, U.S.N., and Lieutenant Colonel E. F. Sloan, Air Corps.

Major General M. A. Reckord, now on leave of absence as Provost Marshal General of the European Theater of Operations, was re-elected to the post of Executive Vice-President which he has held since 1926. Mr. C. B. Lister was re-elected Secretary-Treasurer of the Association, with Mr. L. Q. Bradley as Assistant Secretary.

Resolutions were passed extending the sincere thanks of the Association to the Director of Civilian Marksmanship, the Defense Supplies Corporation, and the War Production Board for their continued helpful co-operation in connection with the Association's nationwide Pre-Induction Training Program, and to the affiliated NRA clubs and their individual members who have, unselfishly and with patriotic devotion, made available their club facilities, their time, and in many cases their personal arms for the instruction of students in marksmanship. A vote of thanks was extended personally, also, to Colonel F. C. Endicott for his unfailing friendship to the Association during his tenure as Director of Civilian Marksmanship.

Another resolution of general interest and indicative of NRA policy was to the effect that the President appoint a committee to study the postwar disposition of range facilities and of surplus small arms and equipment, and to recommend suggestions to be made to the War Department as to the handling of these ranges and equipment.

Statistically, 1944 was an excellent year for the Association. In spite of the complete elimination of competitive matches and a greatly curtailed promotional program, NRA membership grew faster than in any year in its history; so fast in fact that, due to restrictions on the use of paper by magazine publishers, NRA faces the problem of effecting sufficient paper savings to match the growing demand for THE RIFLEMAN.

Financially, the Association enjoyed the best year in its long history. The mortgage on the Association property at 1600 Rhode Island Avenue, Washington, was paid in full so that, for the first time, the Association owns its home. Considerable quantities of equipment and assets of indeterminate value were written down in anticipation of possible postwar changes. A

LETTER FROM LONDON

January 23, 1944.

It's downright embarrassing to date-line my first "communique" as a War Correspondent from a hospital room—especially when my hospitalization involves no candidacy for the Purple Heart; just a cold, resulting from my first bout with the English winter plus an Indian sign put on me by that top-ranking shooter, Major Bill Schweitzer, now Aide to NRA's esteemed Executive Vice President, General Reckord, new Provost Marshal General of the European Theater.

In spite of a few light, hit-and-run bombing raids and the usual "scares" incidental to an Atlantic convoy-crossing, the greatest hazard I've encountered to date is a London black-out. They really black out here, and that coupled with the London fog plus traffic that runs on the "wrong" side of the street, adds up to a real threat! You look to the left, step down off the curb—and score a near miss from a taxi bearing down on you from your right! No wonder the British are a hardy race; they have to be, to survive such hazards!

They're clever, too. They can even work their own telephones! The first time I got into a booth alone with one of those things, I thought I had set off a three-alarm fire. It takes ten minutes to read the instructions. There's a button to push, a lever to pull, bells to ring, a dial to turn. And then a British voice tells you "the line is engaged." . . . That's all a part of the Battle of London.

I'm not allowed to write about the crossing, the convoy, the boat, or the interesting talks I had with GI's on board. I can say that, in the opinion of this observer at least, the Navy has everything under control. We got our thrills when, on a few occasions, the

sizable fund was set aside also as insurance against postwar contingencies, and, in addition, a net gain equalling that of its best previous year was made to the Association's reserves.

Reference was made also in Mr. Lister's report to the assignment of RIFLEMAN Editor, Bill Shadel, as a War Correspondent. Mr. Shadel's primary purpose, Mr. Lister explained, is not to write for RIFLEMAN publication—although he will do that, of course—but to search out "training and combat stories showing the value of small arms marksmanship and to pass these stories along to radio commentators, other war correspondents from the established syndicates, and other magazines," thereby reaching a much larger and different audience than could be reached through THE RIFLEMAN alone.

Of special interest to all NRA members are the closing paragraphs of Mr. Lister's report:

"When the war does end in Europe, the Association will face a particularly difficult situation from the standpoint of administration. It is probable that sporting ammunition will become available in considerable quantities as soon as the European war ends.

"We must also recognize the fact that marked changes are probable in the types of ranges and courses of fire which will be popular when the war is over. Not only the returning troops, but a great many old-line shooters who have served as Home Guardsmen or in other military or police capacities will be opposed to the exclusively slow-fire-prone shooting which has characterized our outdoor small bore program. World War No. 1 saw the end of the Scheutzen game and of the single shot lever action type of rifle. World War No. 2 ushered in the semi-automatic rifle and carbine as the arms most familiar to the average soldier and Marine. World War No. 2 has also witnessed the acceptance of the telescopic sighted rifle and the scout-sniper as important parts of the military machine. From these two developments we may expect a demand for a much larger percentage of rapid fire and surprise fire matches and for the development of inexpensive, practical, "running man" and "bobber" targets which can be safely installed and used on established ranges in addition to the known distance targets. We must expect more interest in telescopic sights, more freedom in position rules and the advent of the .22 semiautomatic rifle on the target range. Just as rapidly as circumstances permit, the Association must prepare itself to take the lead in instituting these changes. We must not grudgingly follow along behind the procession. By applying our knowledge and experience to the problem, we should be able to contribute much to the broadening of interest in rifle and pistol shooting throughout the civilian population, while at the same time maintaining the interest which now exists in the Armed Forces. . . .

"The Association should also decide upon a policy which, in our opinion, will be a wise policy for the War Department to follow with regard to disposition of the hundreds of small arms ranges which have been built throughout the country—some of which are already being placed in a "stand by" condition. We should also evolve a policy and make recommendations to the War Department with regard to the postwar distribution of surplus quantities of small arms and small arms ammunition. There are many angles, legal and otherwise, to both of these problems, and an intelligent policy can be evolved only after a careful study of the various angles by a well qualified committee. Because the war in Europe *may* end during 1944, I recommend that the Board or the Executive Committee direct the President to immediately appoint a Special Committee to evolve a National Rifle Association policy and recommendations to the Secretary of War concerning the disposition to be made of small arms target ranges and small arms ammunition at the conclusion of hostilities.

"There are numerous other modifications and adjustments which the Association will find it possible and desirable to make in order to take advantage of the opportunities which will lie open after the war. The Staff at Headquarters are already discussing many of these possible changes with club officers and members in the field and with individual members of the Board and officers in the Armed Services. Recommendations will be made to the Executive Committee and to the Board as individual situations seem to warrant. The important thing for all of us to remember is that World War No. 1 closed one era in the shooting game and opened another, much broader one. Similarly, the present war will undoubtedly see the end of many old ideas while it ushers in a new era of enormously expanded interest in the Association's program. We must not be caught napping. We were ready for the war. We must be ready for the peace."

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loudspeakers warned us, "Submarine attack is expected!" But strong escorts and new convoy technique keep the convoys safe.

I can testify, too, to the efficiency of this amazing organization of American medics, nurses, and Red Cross. This is my personal assurance that your men abroad will lack nothing in the way of expert medical attention and care. This hospital is a regular hotel, splendidly equipped and staffed; and it is one of many.

These are fine subjects to write about, after being "seen off" all armed (with a typewriter!) and primed for war! But prospects are better now and I hope that my next "story" will be of a different sort and of greater interest to RIFLEMAN readers.

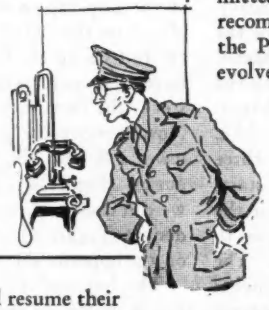
Meanwhile, I've seen a bit of London. The scars of the "blitz" seem spotty at first glance. You're surprised at the sight of rows on rows, street after street, of buildings apparently untouched. Then you see that some are shells, gutted by fire . . . People still sleep in the subways, the "underground." Many are homeless, their houses wrecked. Some are shell-shock cases, unable to bear the noise of the antiaircraft guns that still bark occasionally . . .

The beauty of the English countryside is breath-taking; every bit of land under cultivation and care; no trace of soil erosion even on the steep slopes; picturesque villages—something worth fighting desperately to keep!

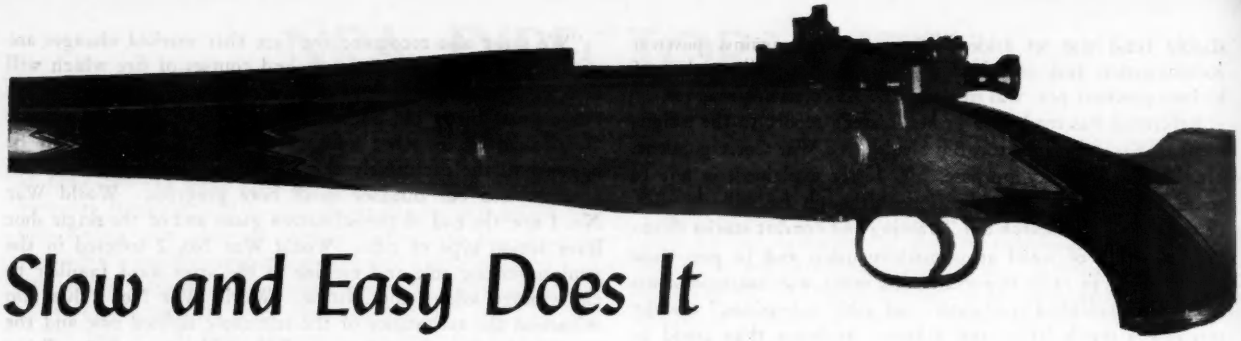
The British people? Calm; determined; friendly. No apparent exultation over the pasting being given now to Berlin and the other great enemy cities; just a quiet watching of the bombers roaring overhead . . .

Meanwhile, the Yanks are here; Yank riflemen, Yank fliers and engineers and all the rest—waiting. And to a man their feeling is, "England is fine, but home is best; let's get this over with and get on home!" . . .

(Signed) BILL SHADEL, War Correspondent.



A great many of our active club officials will resume their interest in Registered Tournaments and similar activities, and there will be a constantly increasing number of men discharged from the Armed Services who will be interested in the possibilities of rifle and pistol shooting as a means of recreation. During those months, however, the return of our administrative personnel now in the service to their desks at Headquarters will be uncertain and delayed and it will be necessary to rebuild the staff of Official Referees in the field which made possible the highly satisfactory Registered Tournament program that had become such a feature of our activities prior to Pearl Harbor.



Slow and Easy Does It

By JAMES FEERICK

NEXT TO CORRECT DESIGN of the stock itself, few things will add as much to the appearance of a gun as will a good job of checkering. It takes it out of the unfinished class, gives it that finished touch. A rifle with an uncheckered stock always seems undressed, naked. Time and effort spent in proper checkering will pay dividends in added pride of ownership and by adding actual dollars-and-cents value to the rifle.

Checkering is not really a difficult job. Anyone with a reasonable amount of patience can do a good job of it. No particular skill is required, but it does demand slow, painstaking concentration. Never touch a checkering tool to a gunstock until you have applied it carefully and diligently to all the pieces of scrap hardwood you can lay your hands on. Practice on walnut especially, as this is the wood found in most gunstocks. Get the feel of the tools and learn how to use them on curved surfaces. It's not the easiest thing to do at first, but a little practice will quickly put you on the beam.

The beginner usually runs into trouble the minute he starts on such a job. His difficulty is mainly in the layout of the design and in proportioning and placing the diamonds. It is important that the diamonds be of the correct length in relation to their width. If this proportion is not right, the effect will not be good.

This problem is greatly simplified by making up a guide in advance. Use either a thin sheet metal, iron or brass, or a heavy Cellophane or pyrolin for this purpose. These latter have the advantage of being transparent, enabling you to see exactly what you are doing. This guide serves as a pattern in making the first lines and insures the correct shape of the checkering design. It also insures that both sides of the grip and fore end will be alike.

The length of the diamonds should be from three to three and a half times the width (Figure C). In order to get a start, it will be found convenient to have a set of dimensions for the triangular guide. Lay it out on two lines at right angles to each other, the vertical line bisecting the horizontal line. The base of this triangle should be one and five-sixteenths inches and the height two and five-sixteenths inches. (See center drawing.) When cut, mark the center of the base and bend the corners slightly to fit the curved shape of the stock.

Tools required include a double-cut spacer cutting twenty lines to the inch. (These are also available for sixteen, eighteen, and twenty-two lines to the inch.) This spacer enables one to cut lines mathematically correct and even throughout the job. These marking lines are just that and no more. Don't try to cut them too deeply at first. Cut only deeply enough to allow one cutting edge to follow the groove in cutting the next line. Each succeeding groove acts as a guide for the spacer. While forming a groove, it is necessary to hold the spacer at a slight angle to be sure that the one cutting edge follows the preceding groove while the other marks the new line. The new line is gradually deepened into a groove by gently rolling the spacer and cutting more and more deeply (Figure A).

A riffler is also needed to deepen the grooves and "V" them. If the grooves are not deepened to a full "V," the diamonds will have a flat top, whereas they should each appear as individual pyramids whose tops are pointed.

While a stocking cradle is not absolutely necessary, it will be found a great convenience. It will simplify and speed things up considerably. However, if one is not available, a bench or other suitable rest will serve.

In laying out the design on the grip, first tie a piece of string, or twist a wire around the grip just aft of the trigger guard bow (Figure 1). Trace around this with a pencil. Mark the center of this line between the upper and lower tangs on the side of the grip and from this mark to the center of the grip cap, draw a line following the curve of the grip (Figure 1). The front and rear border lines are then drawn in paralleling the line just made and following, of course, the shape of the grip. The front border line is merely a continuation of the line of the lower tang's edge to the grip cap (Figure 2). The rear border follows the curve of the center line from the edge of the grip cap to where it meets the tang. The guide is then placed on the center line as shown in Figure 3, with the center of its base at the intersection where the line around the grip meets the center guide line. Holding the guide tightly to the stock, the first lines are made from the two edges of the guide. Now, remove the guide and extend these lines to the borders, using a flexible rule to aid in keeping them mathematically accurate (Figure 4). Now that we have our two starting lines we can disregard the center line and complete the desired border design (Figure 5) in pencil. The procedure is then duplicated on the opposite side of the grip.

The fore end is tackled in much the same manner. A center line is drawn on each side of the fore end between the top and bottom edges to insure the center points of the borders, fore and aft, being properly placed. Now, twist your wire around the fore end where the rear border points are to be located. Place the center of the base of your guide on the spot where the wire intersects the center line, with its point on the center line (Figure 6). Now mark in your two starting lines as before. This will result in two panels exactly alike.

If it is desired to have a continuous, uninterrupted pattern all around the fore end, draw a center line down the center of the stock instead of on the two sides. This center line should

connect the center of the forearm tip with the front guard screw hole. Now use this line to center the guide and extend the starting lines (with the aid of the flexible rule) to the borders as before (Figure 7).

Now complete sketching in the borders but don't cut them in until the panels have been filled in by means of the spacer. This enables you to follow the lines of the checkering in making the final border. This goes for the grip as well as the fore end.

Filling in the panels laid out for checkering is not difficult but it is, as we have said, a painstaking, patience-requiring job. In starting on such a job, be sure to place the gunstock so that one of the starting lines is in direct line with the natural swing of the arm holding the tool. This is important because the least bit of side pressure on the spacer will send it out of line and mar the work. Groove the first of the starting lines with the riffler using the flexible rule, of course, to keep the line true.

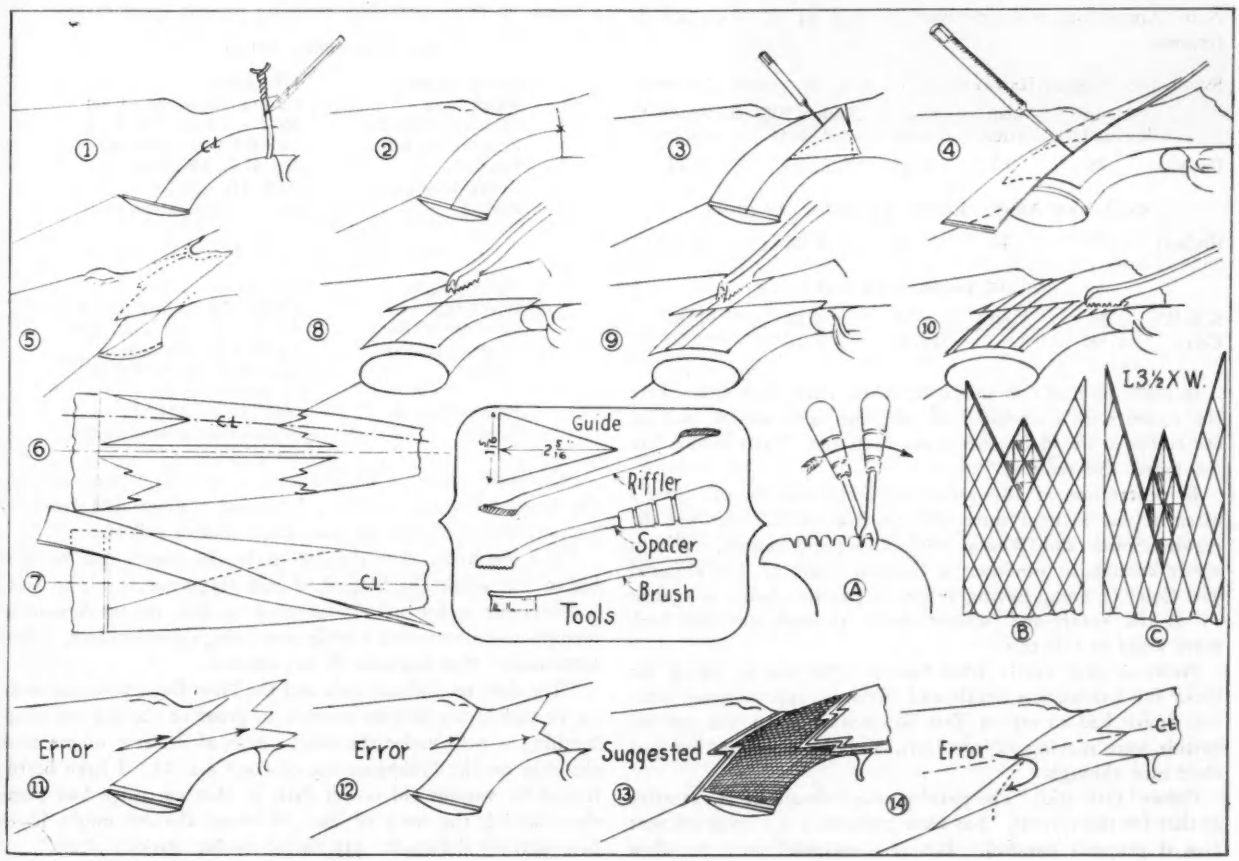
All succeeding lines are made by following one cutting edge of the spacer in the last groove cut, thereby marking the next line. Be sure to roll the tool as it is being worked, using a sawing motion as the cutting edge bites into the wood. Move forward slowly and don't try to make the whole line in one swoop. The roll of the tool is increased until the tool is vertical and the groove is cut to its full depth (Figure A). Follow this procedure until the whole panel is finished with lines running in one direction. Then readjust the stock until the other is in starting line with the working arm (Figure 10). This series of lines forms the diamonds. Of course, they now appear flat and unattractive, but when they are properly "V'd" and deepened with the riffler the contour of the diamonds shows up nicely. The riffler is also used to cut and deepen the borders. Keep the grooves cleaned out well with an old toothbrush. This facilitates the work immensely as the dust collects very quickly and visibility of this fine work is definitely impaired.

The job is finished by brushing all the panels with a toothbrush or other small brush that has been dipped in a small amount of powdered graphite. This tones up the work beautifully and causes the diamonds to gleam like the real thing. Be careful not to get too much graphite on at first. The amount to use depends on the darkening effect desired.

Figures 11 and 12 represent common errors in design layout. The rear border in Figure 11 isn't curved as it should be but follows the line of the diamonds. The front borders are too far forward. In Figure 12 a diamond of improper shape has been used. It is too short and fat giving an awkward, unpleasant effect. The rear border is erroneously curved in reverse.

In Figures 13 and 14 you have the writer's preference in design for checkering a grip. The border here is spaced double the width of the spacer, and the conventional three-point design is abandoned for the irregular "V." For a straight grip, bring the rear border line well aft, at least halfway between the bow of the trigger guard and the toe of the butt.

In concluding, let me again urge that the beginner take his time and not be in too much of a hurry. Nothing dresses up a rifle like a good job of checkering. Conversely, nothing can detract from the appearance of a rifle more than a messy job. Learn to use the tools; avoid haste. Slow and easy does it.



Reader footnotes to W. H. B. Smith's story:

"This Pistol Packin' War"

THE ARTICLE UNDER THIS TITLE by W. H. B. Smith in the January RIFLEMAN was both interesting and instructive. Mr. Smith failed, however, to give credit where due, when he credited our country with the development of the 200-grain .38 Smith and Wesson Super-Police bullet. It was developed in England for the hinge-frame .38 Webley-Scott. It was then taken up by Western in this country. It is a grand caliber and it is no wonder that the Smith and Wesson Special .38 became popular almost to the exclusion of other calibers. My experience over a period of years of shooting game with revolvers has been that the .38 regular kills better than the regular round-nose Special on tough animals such as hedgehogs, woodchucks, etc. It sounds incredible, but it has worked out so for me. Of course, the regular bullet for the .38 Smith and Wesson is .360 diameter against .258 for the Special, and is slightly more blunt besides.

Following the line of thought taken in Mr. Smith's excellent article, how many know that in July, 1890, at the earnest behest of Colonel Otis of the 8th U. S. Cavalry, one hundred .38 Smith and Wesson New Departure (or hammerless) revolvers were issued, fitted with five-inch barrels, for test as an army revolver? Furthermore, in competition with the Colt New Army, the two revolvers showed up in accuracy as follows:

SMITH AND WESSON HAMMERLESS. RANGE, 25 YARDS. 10 SHOTS.

	Mean horizontal	Mean vertical	Radius circle	Radius 50% of shots	Radius 100% of shots
(inches)	.78	.68	1.18	.86	2.44

COLT NEW ARMY. RANGE, 25 YARDS. 10 SHOTS.

(inches)	1.37	.78	1.68	1.28	2.52

AT 100 YARDS, SAME TESTS.

S. & W.	2.56	3.60	4.91	3.84	7.50
Colt	4.88	8.	10.11	7.76	23.90

It must be borne in mind, however, that these Colts were the model with over-bored barrels; the same model used by our troops in the Philippines many years ago. Later models had the barrel size reduced.

In penetration at 100 yards the Smith and Wesson gave a mean in pine butts of three and a quarter inches. This was the regular Smith and Wesson with 146-grain bullets. This is surely enough to penetrate a German tunic or Jap kimona! The Colt .38 Long, having 18 grains powder charge as against 15 in the Smith and Wesson, went through one-half inch more wood in this test.

Now, see how nearly what Colonel Otis said in asking for these 100 hammerless Smith and Wessons, approximates what Mr. Smith had to say in THE RIFLEMAN about the use the British were making of revolvers, and the training they put their men through.

Colonel Otis said, "The pistol practice should be as extensive as that for the carbine. For close quarters it is a most efficient arm if properly handled. But it is intended only for close and rapid firing. I would not desire men whom I lead to commence firing at a greater distance than twenty yards; and I recommend lowering the pistol, extending the arm, and firing the pistol the same as you would point your finger."

Further on Colonel Otis says, "The .45 caliber is unnecessarily large, and the range greater than there is any need for. A reduction in the former, therefore, decreasing weight of pistol and ammunition, would be a gain to the trooper in comfort, and would not detract from the effectiveness of the weapon. An effective range of sixty yards is sufficient, and a pistol would not, and should not be used at a greater distance."

How up with the times Colonel Otis was in that year 1890! And how well all he said agrees with what modern armies are finding out today.—WILLIAM B. PARKER.

Few articles recently published have brought forth so many interested and interesting comments as did Mr. Smith's "This Pistol Packin' War." Another reader sends us the following additional data:

"Early in 1943 there was a change in the .380 and .455 cartridges from lead to Gilding Metal Steel Clad. I attach a memo on both cartridges covering present specifications:

BALL CARTRIDGE .380 MARK II

Bullet weight	178 grains
Bullet type	Gilding Metal Steel Clad
Velocity (30 feet)	600 f. s. (+ or −30 f. s.)
Pressure (radial)	15,800 f. p. (maximum)
Powder	No. 4753, 3.6 grains
Bullet diameter	.359" H.— .3575" L.
Primer	non-corrosive, loose anvil

BALL CARTRIDGE .455 MARK II

Bullet weight	265 grains
Bullet type	Gilding Metal Steel Clad
Velocity (30 feet)	620 f. s. (+ or −20 f. s.)
Pressure (radial)	11,000 f. p. (maximum)
Powder	5.2 grains nitro-cellulose 7.5 grains cordite
Bullet diameter	.456" H. — .454" L.
Primer	non-corrosive, loose anvil

Mr. Smith writes, "Thanks very much for letting me see the letter from Mr. Parker. I learned a great deal from it and am sure that most of your other readers will also.

"If I did know that the 200-grain .38 Smith and Wesson bullet was originally English, I had forgotten it. The fact interests me and I am always glad to hear of an American manufacturer accepting a really fine foreign development. Unfortunately, that happens all too seldom!

"The data on Colonel Otis and the New Departure was new to me and is certainly an example in proof of the old saw that 'nothing is new under the sun!' Also of interest to me was the data on the Philippine use of the Colt .38. I have heard it said by various old-timers that, if that cartridge had been short-loaded, the story of the .38 versus the .45 might have been entirely different! My thanks to Mr. Parker, please."

"THE TARGET HITS BACK"

FOR A LONG TIME I have recognized the need in police training for a moving target that would create within the shooter a psychological effect similar to that experienced by men in actual combat; that would impress upon police officers the necessity for coolness when firing. The article in the July, 1942, issue of THE AMERICAN RIFLEMAN by Mr. J. E. Peterson, entitled, "The Target Hits Back," supplied the answer.

A target similar to the one described by Mr. Peterson was constructed and is now in use by the Kansas City Police Academy, to supplement our regular Outdoor Firearms Training. We use the F.B.I. Practical Pistol Course, consisting of firing from the hip, sitting, prone, right- and left-handed, and from behind barricades.

The "hit back" target, suspended from an inclining wire by two pulleys, advances toward the shooter at about the speed of a man running. To stop the target, the shooter must hit a small metal disk located in the chest of the silhouette target. This releases a brake against the cable and stops the target. The brake is loosened and the target returned to the starting position by means of a sash cord. For scoring purposes, if the target is stopped before reaching the twenty-five yard line the shooter is awarded five points; at twenty yards, four points; at fifteen yards, three points, etc. Five shots are fired and a perfect score is twenty-five.

To increase interest, our target was painted to simulate a Jap. This "Hillside Hirohito" was an immediate success with the men.

The psychological effect of the target running toward the shooter, gaining momentum as it approaches, is similar to that experienced by the policeman when he is "shooting it out" with an armed band't.

It was never necessary to tell the man who blazed away all his ammunition without stopping the target what would have happened had it been the real thing. I sincerely believe that when the boys do come up against the real thing, they will remember the lesson taught them by the "Hillside Hirohito."—LT. BYRON ENGLE, *Director*, Kansas City Police Academy.

Modern Cartridge Design

(*Continued from page* 14)

down the 7 mm. to .25 caliber. This later became the popular ".257 Roberts" in factory production.

After altering a cartridge it is often necessary to use a different type of primer and, in some cases, to alter the size of the flash hole. The latter is a *VERY* dangerous practice and had better be left alone except by those who are informed and willing to use extreme care in their experiments. The idea of using a flash tube to carry the primer flash up toward the forward part of the case has often been suggested and tried, the idea being to create a more efficient combustion by igniting the charge at the front and burning it from front to rear.

A priming charge or "booster" is sometimes used to control or speed up the ignition of slow burning propellants. Here again caution is necessary as pressures may jump dangerously.

There is little use of improving rifle cartridge ballistics if a poorly shaped bullet is used. Light bullets may be fired at high muzzle velocities but if they lose too much of their speed before reaching the target or game they merely waste the power necessary to propel them. Here we find the ratio of the bullet's length, weight, and diameter are important from the standpoint of ballistic efficiency.

This "ballistic coefficient," together with the projectile shape, gives an indication of how well it can sustain its velocity. Maximum striking velocity in combination with controlled bullet expansion is now recognized as the all-important factor in high-intensity game cartridges.

After the war many of our present cartridges will certainly become obsolete and the companies will doubtless tool up for the most promising of the present "Wildcat" designs. Some new factory designs may be introduced also. We may have low-cost steel cartridge cases which should have a long reloading life. A few new powder types may be announced. We may have some new steel alloys for barrels which will withstand the super velocities of the new-type cartridges. Mass production methods learned in the war may lower the cost of ammunition, rifles, and telescope sights. Perhaps under the direction of the NRA we can form many new clubs and make rifle shooting a major national pastime. Sensible control of firearms laws can keep America a "Nation of Riflemen" and insure us against any further attack. If we care for our game with wise conservation we will all have an abundance of game to hunt. Camp Perry will doubtless see many of its records broken with new precision rifles and cartridges.

Until the end of the war we will just have to wait and let our boys at the fronts use the ammunition to finish the job that comes first. Most of the country's best-known gunners and designers are now in the service, but just wait and see some of the new ideas they have for postwar experiments.

Scope Mount for Clip-Loaders

By HOBART S. WHITE

THE SELECTION OF SHOOTING EQUIPMENT for a given purpose may be divided into three categories: the gun, the caliber, and the sights. I wanted a rifle for hunting deer and black bear at 200 to 400 yards. Authorities such as Colonel Townsend Whelen, Captain Philip B. Sharpe, and Mr. Jack O'Connor agree that a Model 70 Winchester in .270 caliber is an excellent combination for such shooting, so that is the gun I bought. Having acquired the rifle I next made a study of the sight equipment.

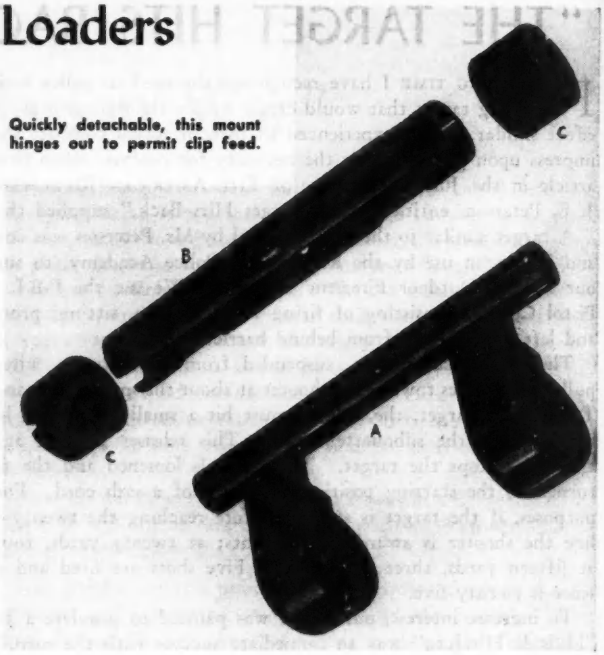
In the region where I hunt deer, the Weaver 440 scope has been used more successfully than any other sight equipment. Hunters use them in place of binoculars for searching the landscape for deer, ready to shoot immediately once they see a legal buck. A four-power scope with a wider field and greater brightness would be better, but they are not readily available.

The selection of a scope mount was not so easy. I wanted a quick-detachable scope mount which would permit loading from clips without detaching the scope. Since I could not locate a scope mount that would meet my requirements, I made the one described here. The result is a mount that holds the telescope in its shooting position, directly over and almost touching the receiver.

Photographs, herewith, show the separate parts of the mount and the mount holding the scope in the leading position. The shift from shooting to loading position, or vice versa, requires less than one second. A spring-loaded ball click arrangement, holds the scope in either position as desired.

Part A is permanently attached to the telescope. Part B is permanently attached to the receiver of the gun with three screws, two taper pins, and bismuth-alloy solder. Parts C have tapered threads which fit the tapered threads of part B. The front cap (part C) is removed for detaching scope. The parts C are tightened to the desired snugness by thumb and finger, although coin slots are provided for emergency use. The tapered threads prevent the caps from becoming loose and allow them to reinforce the ends of part B against spreading from recoil or rough usage.

The reliability of the mount when using accurate handloaded ammunition is indicated on the target below. Forty rounds of maximum loads were used to test the mount for the effect of recoil. The load was 47.8 grains of duPont No. 4320 with Remington 150-grain S. P. bullets, giving a velocity estimated at 2850 feet per second. Ten shots were used for sighting-in the gun. Once that was done, thirty shots were fired for record.



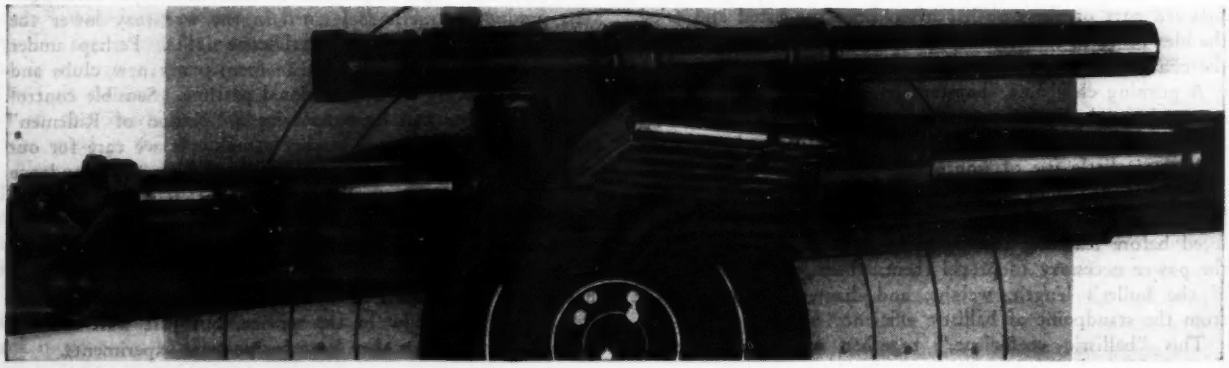
Quickly detachable, this mount hinges out to permit clip feed.

During these tests, the scope was removed after each ten shots and was swung over for clip-loading after each five shots. The groups prove that the mount holds its zero. In addition, the small clearance between the scope and the front of the receiver was measured before and after the forty rounds of firing and no change was noted.

More recently, the gun has been used for Minute Men maneuvers, for woodchuck hunting, and for considerable shooting with 130-grain Silvertip ammunition and hand loads of fifty-four grains duPont No. 4350 with Remington 150-grain S. P. bullets, with no change in telescope alignment.

The weight of my "handmade" mount is nine ounces. It was made from scraps of ordinary cold-rolled steel. With alloy steel, a "factory-made" mount weighing six or seven ounces would be plenty strong. Use of aluminum alloy for some of the parts might reduce the weight to four ounces and still give ample strength.

Plans are being made to develop a "factory model" and have it in production soon after the war is won. Meanwhile, a patent has been applied for and business negotiations are under way.



Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

By the OLD COACH

PART VIII.—THE BULLET'S FLIGHT

THE STUDY OF THE FLIGHT of the bullet from the muzzle of the gun to the point where the projectile comes to rest is known as the study of "exterior ballistics."

Generally speaking, the study of exterior ballistics is much less complicated than the study of interior ballistics. There are not so many undetermined or indeterminate factors. The flight of the bullet is pretty well determined by known laws of physics; that is, laws dealing with such forces as gravity, acceleration and deceleration, inertia and momentum, air compression and air flow, and gyrostatics.

The first thing to get clearly in mind is that all bodies fall at the same rate of speed when falling in a vacuum. When falling through the air all bodies *try* to fall at the same speed but there will be some difference in the rate of fall because of air resistance and varying density of the falling objects. The *gravitational pull is constant* in any case. It is this constant gravitational pull that causes the bullet's path of flight —its "trajectory"—to curve downward from the time the bullet leaves the gun muzzle. It is true that the bullet travels upward from the gun muzzle, above the line of sight, then drops again to bisect the line of sight at the target. This is because the rifle barrel is slanted upward so as to pitch the bullet above the line of sight. If we project a line straight forward through the bore of the gun (this is known as the "line of *site*") we will see that the trajectory begins falling below the "line of site" as soon as the bullet leaves the muzzle. The "line of *site*" and the "line of *sight*" are quite different matters and the first is separated from the second by a wide angle. The exact angle of separation, of course, depends on the range and the velocity of the bullet. An amazing number of people have a hazy idea that, because the rifle bullet is spinning in flight and has gyrostatic stability, such bullets can somehow or other defy the laws of gravity. Don't befog your thinking about bullets in flight by permitting such notions to remain in your head.

The second point to fix in our minds is that the constant pull of gravity causes a constant *acceleration* of the rate of fall. Because of air resistance the *rate* of acceleration will vary slightly, dependent on the density of the air through which the object is falling. The air is "thinner" at high altitudes than at sea level. The air resistance is therefore less at high altitudes than at sea level. Other things being equal, a falling object will accelerate faster at high altitude than at sea level.

LEGION OF MERIT

COLONEL WILLIAM J. WHALING, USMC

"For exceptionally meritorious conduct in the performance of outstanding service to the Government of the United States while serving on the Division Staff of the First Marine Division on Guadalcanal, Solomon Islands, during September and October, 1942. Requesting and receiving permission to organize a scout-sniper detachment, Colonel Whaling supervised the training of selected groups in scouting, stalking, and ambush tactics, affording his men practical experience by leading them on hazardous missions deep in hostile territory. By his skillful instruction and his expert knowledge of jungle warfare, he contributed immeasurably to the success achieved by our patrols in important operations against the Japanese. His courageous initiative and inspiring leadership were in keeping with the highest traditions of the United States Naval Service."

Colonel Whaling is another of the "Men of Perry" of long standing, a top ranker with both rifle and pistol, member, captain, and coach of several Marine Corps Rifle and Pistol Teams. We salute him!

For all practical purposes in considering the flight of a *small arms* projectile we may consider the rate of acceleration of fall to be a constant rate. For all practical purposes we may consider this rate of acceleration to be 32 feet per second. This does *not* mean that a bullet will fall 32 feet the first second it is clear of the muzzle, another 32 feet the next second and so on downward until it strikes the ground. What it does mean is that the bullet is falling at a rate of fall which *increases in speed* 32 feet for every second that the bullet is in flight. The bullet is *not* falling until the instant it leaves the muzzle. By the *end* of the first second of flight the bullet is falling at the rate of 32 feet per second. The actual amount of fall will therefore be determined by the *average* rate of fall during the one second of flight or an actual drop of 16 feet. Entering the *next* second of flight the bullet will have a starting velocity-of-fall of 32 f.s. This will be *accelerated* by another 32 f.s. during the *second* second-of-flight so that at the *end* of the second second-of-flight the *velocity* of fall will be 64 feet per second. The actual distance the bullet drops will be determined by the *average* velocity of fall which was 48 feet per second. At the end of the *second* second-of-flight the bullet will have fallen 16 feet (first second) plus 48 feet (second second) or a total of 64 feet. During the *third* second of flight the velocity of fall will increase from 64 f.s. to 96 f.s. (remember there is a constant rate of acceleration of 32 f.s. per second). The *average* velocity of fall during this third second will be 80 f.s. so the bullet will drop 80 feet during the third second of flight. The total drop at the *end* of the *third* second of flight will be 16 feet (first second) plus 48 feet (second second) plus 80 feet (third second), or a total of 144 feet in the three seconds.

The simple formula for computing the amount of drop in feet at the end of any second of flight is expressed in this way—"If the *acceleration* is constant the *distance* traversed in any given number of seconds is equal to one-half the acceleration times the square of the number of seconds." Applying this to the example which we have examined in detail above we find that it works in this fashion: The acceleration is constant at the rate of 32 f.s. per second. One-half the acceleration is therefore 16. The number of seconds is 3. The "square of the number of seconds" is 3 $\times$ 3 equals 9. "One-half the rate of acceleration times the square of the number of seconds" is therefore 16 $\times$ 9 which equals 144, the number of feet the bullet has dropped at the end of

the three-second period of flight which we worked out second-by-second in the original discussion.

From the above example it becomes evident that the distance a bullet falls before it strikes the target is directly proportional to *the length of time* the bullet requires to reach the target. This is why high-velocity bullets are said to have a "flat trajectory" as compared with bullets of lower velocity. If two bullets were fired simultaneously, one having a muzzle velocity of 3,000 feet per second and the other having a muzzle velocity of only 2,000 f.s. and if both bullets remained in flight for three seconds they would *both* drop 144 feet. The only difference would be that the faster bullet would have traveled a great deal farther in a horizontal plane during those three seconds of flight. If both bullets had the *same distance* to travel in a horizontal plane the faster bullet would reach the target sooner, i.e., its time of flight would be less. Solely because of its shorter time of flight it would have fallen a shorter distance when it hit the target.

"Stream-lined" bullets do not have a "flatter trajectory" merely because of their shape. They have a flatter trajectory over a given range because the "stream-lined" shape enables them to maintain a higher rate of speed and cuts down their *time of flight*. But the most perfectly stream-lined bullet will fall 144 feet in three seconds of flight just the same as the most blunt-nosed, flat-based bullet you ever saw.

Somewhat akin to the subject of bullet drop due to gravitational pull is the subject of bullet drift due to wind pressure.

Of course the weight of a bullet has great bearing on the question, "How much can the wind blow it off course?" When a heavy object has been set in motion in a given direction it is much harder to divert to a new course than is a lighter object traveling at the same speed. This is because *momentum* is the product of *weight* times *velocity*. A bullet starts from the muzzle straight toward the target and a cross wind has to *divert* it from its original course in order to set up a lateral drift. If we have two bullets, one weighing 150 grains and the other weighing 100 grains and if they are both of the same size and travel at the same speed the 100-grain bullet will be the easier to push off course. Similarly, if we have two bullets both traveling at the same speed and both weighing 150 grains but one made of lighter material than the other so that it is larger and presents more surface for the wind to press against—the larger bullet will be the first to blow off course. This is another way of saying that the greater the *density* of the bullet the less it will be affected by cross winds of any given velocity.

A moment ago we said that momentum was the product of weight times velocity. That is, increasing the weight of the bullet will increase its momentum at the same velocity, just as increased velocity will increase the momentum of a bullet whose weight remains unchanged. We indicated earlier too that the more momentum an object had in a given direction the more difficult it is to *divert* the object from its *original* course. From these two facts we arrive at the third point with regard to cross-wind drift of projectiles. Increasing the *velocity* of a lighter bullet until its *momentum* exceeds that of a heavier bullet moving at lower speed will result in the lighter bullet being diverted to a smaller extent by a cross-course wind. The "joker" in this arrangement lies in the fact that the lighter bullet will *lose* velocity more rapidly than the heavier bullet and at some point not far from the muzzle, the momentum of the heavier bullet will exceed the momentum of the lighter bullet and the temporary superiority of the lighter bullet as a "wind-bucker" will vanish.

If all other things are *equal* the amount of wind-drift will be directly proportional to the *length of time* that the bullet is in flight. Given two bullets of the same shape, weight, and density, with a twenty-mile wind blowing steadily against the left side of each it is obvious that the bullet which remains longest exposed to the wind will be blown the farthest off course. A factor often overlooked is the fact that a cross wind at the gun muzzle will cause a wider drift than a wind of the same velocity at the target. *Momentum* is the answer. The cross wind acting during the early portion of the bullet's flight imparts *lateral momentum* to the projectile and that momentum continues to carry the bullet farther and farther to the side at the same time the bullet moves forward. Furthermore, once the bullet has been started on its off-course drift by a good strong push only a very light push will be required to maintain or accelerate the rate of that drift.

Many people who are familiar with the laws of gravity and of accelerated and retarded motion ask whether a bullet fired straight into the air with a given velocity will return to earth with the same velocity. Many experiments conducted by competent ballisticians have proved that a rifle bullet fired vertically into the air returns to earth with very much *less* than its original velocity. The reason is not hard to find. When the bullet starts aloft through the relatively dense air it has high rotational velocity with excellent gyrostatic stability which keeps it boring through the air point foremost. At the top of its flight its rotational velocity and gyrostatic stability have both fallen off to a considerable degree. The bullet wobbles and tumbles. Throughout its fall back to earth it presents large surfaces to the retarding air. As the air increases in density at the lower levels the tendency of the bullet to tumble increases, adding more and more air resistance. The retarding influence of the air on the broader surfaces exposed by a tumbling, descending bullet is much greater than that exerted on a stream-lined, gyrostatically stable ascending one. The result is that a falling bullet never attains a speed equal to its muzzle velocity. (*To be continued*)

"No, Jed! With that dingus, in a day's shootin' you'd end a feud that'd last us thirty more yar, if we wuz keerfull"

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

THANKS, JUDGE

Los Angeles, California.

Editor:

Judge Hilliard Comstock did us shooters here in California (and all shooters everywhere) a great service in engineering the defeat of the attempt, by means of certain bills, to take our guns away from us. I wonder if we, as shooters, have expressed our thanks in adequate terms to the Judge and to the Association he represented? As I sit back now and consider what the situation might have been, I am certainly glad that the NRA and Judge Comstock were there to protect Mr. Average Shooter. On behalf of all shooters and sportsmen, THANK YOU!

Jack J. Jenkins.

FINE LOT OF FRIENDS

Morenci, Michigan.

Editor:

Regarding NRA policies and the magazine—don't change a thing! I think the stories and articles in it are the best ever. Would like to see more dope on the old-time single shots.

The feeling among NRA members is tops, too. I don't have a spotting scope but had no trouble borrowing one from total strangers at the Flint, Michigan, fall matches. Again, I answered an ad in THE RIFLEMAN for a rifle. The rifle came carefully packed, exactly as advertised. . . . Well, those people were NRA members; a mighty fine lot of friends to have!

Hollis W. Cowgill.

KEEP IT GOING

Green Bay, Wisconsin.

Editor:

Thought you might be interested to know that it was due in a large degree to things I have learned from the pages of THE RIFLEMAN that I was able to take second place in the national individual pistol match for Hercules Powder Company Plant Guards.

Keep the civilian shooting game going. I'm in the Marine Corps now, but when I come back and wipe the dust off my shooting kit again, I'll be out to get that Master Rating I never was quite able to make in the past!

Joseph V. McCullough.

STORY FROM ITALY

Chicago, Illinois.

Editor:

My brother, George Phillips, who is also a subscriber to your magazine and a pistol and rifle enthusiast, is now at the front in Italy. His recent letter contains a story:

During an unusually heavy artillery duel, a supply truck near which my brother was standing was hit. My brother was knocked down by the concussion but recovered quickly, mounted the burning truck and started tossing its smouldering debris in every direction. It wasn't his clothing he was trying to save, nor his other equipment. What he was after was four unread copies of THE RIFLEMAN! They were in his packs and, as he says, Lord only knew when he would see another! Unfortunately, the story has a sad ending. He didn't save them.

John R. Phillips.

A package of recent copies of THE RIFLEMAN *is on the way to Pvt. George Phillips to replace the ones he lost.*—ED.

"TO DREAM OF HOME"

USMC.

Editor:

Thank you for the copies of THE RIFLEMAN. You don't know how much pleasure it is to a tired service man to sit down at night and read of home and the peace-time sport to which we hope someday to return. Many of the men here share my copies of the magazine and would subscribe except that they will soon "ship out" to parts unknown. Thanks again, and my compliments on the high quality of the magazine.

John R. Cummins.

The AMERICAN RIFLEMAN will pay a minimum of five dollars for letters from men in the armed services direct or received through their families, telling of personal experiences or eyewitness accounts of the exploits of individual riflemen in battle, where aimed fire was used with telling effect. These must be true stories of actual events. Fiction is of no interest. We reserve the right to reject any letter the details of which cannot be officially substantiated.

We are concerned with the intimate details which interest the rifleman. We'd like to know the weapons used, the kind of target, distances to the targets, the kind of background, weather conditions, and type of terrain involved, etc.

Information of military importance should be omitted but names of individuals, their home addresses and former rifle club affiliations are desired. Where organizations have been located by name in the newspapers it is permissible to name these outfits.

In all cases, please advise where remittance is to be made; whether to the soldier direct or to his family.

MISSING IN ACTION

Binghamton, New York.

Editor:

With reference to the story, "One of 'The Men of Perry'," in the December, 1943, RIFLEMAN, you will be interested in the following quotation from a letter I received today from a friend in the Fourteenth Air Force in China:

"Although all but Benko and one other crew member returned about six weeks ago, we are still hoping that he will show up. His navigator is a very good friend of mine and is on his way home. They were forced to bail out and had quite a time getting back here."

I had known that several of the boys were shot down sometime before Christmas, but this was my first knowledge that Benko was among them. Benko had not returned to his base up to the time this letter was written, January 11th, 1944. You, and all shooters, will hope, as I do, that he may get back home safely somehow.

Richard F. Briggs.

S/Sgt. Casper B. Chirieleison, belly gunner in "The Goon," the same B-24 Liberator in which Sgt. Benko operated the top turret, returned recently to his home in Washington to await reassignment. He reports that all members of "The Goon's" crew hit the silk after their engines failed over a small town in interior China. Five of the seven crewmen found each other and were led to safety by friendly Chinese. Two, of whom Sgt. Benko was one, were not found and are still missing.—ED.

NEW JERSEY FIFTY METER

The first of the Columbia Rifle Club's winter series of monthly fifty meter indoor matches was held at Paterson, New Jersey, January 15th and 16th, with fifty-six competitors. M. Balestrieri won the iron sight match with a clean 200-13X and dropped one point in the any-sight for a 399-29X winning aggregate.

O. E. Weissenborn had top score in a three-way tie at 200-16X to win the any-sight, with Otto Kolb second, Corporal Richard Berlin third. George Koegel and Walter Klem won the two-man team match with 399-18X. The team of Sam and Irwin Tekulsky was second with 398-28X.

KENTUCKY PISTOL

Another successful indoor match was staged by the Louisville Rifle and Revolver Club in their Armory range, January 23rd. Firing was over a course of Slow, Timed, Rapid, and NRA Short Course. Joe Anderson won the Aggregate with 835, five points ahead of Raymond Wright. Norris I. Garvey was high Expert with 806. Ralph Ohlman won every match in the Sharpshooter class, including the Aggregate in which his score was 756. W. C. Watters won the Marksman aggregate with 736.

Gold medals were given the winner in each class. The club will stage two more similar matches this summer and will hold a registered match in the fall.

LONG ISLAND GALLERY RIFLE

The Long Island Rifle and Pistol Association held their second gallery match of the season January 23rd, at the Metropolitan Rod and Gun Club range in Brooklyn. Seventy shooters were present.

Paul Becker, of the Antlers Rifle and Pistol Club, won the twenty-shot four-position match with a score of 190. Lieutenant Fred Von-Sholly was high Expert with 189, Kenneth Krants was high Marksman with 182, and

Robert Milley was high Junior with 181. Otto Kolb won the two-position match with 192.

In planning two more registered gallery matches for the present season the Long Island Rifle and Pistol Association feels that these matches will provide a nucleus of interest to keep the shooters active, and an incentive to beginners in the various clubs.

ILLINOIS STATE PISTOL

Sixty competitors from Illinois, Iowa, Indiana, Wisconsin, and Michigan registered for the Illinois State Rifle Association's Mid-Winter Indoor Pistol Championship Matches at Chicago, January 16th.

Major M. K. Wright won both .22 caliber three-stage courses with 270 and 280, winning the aggregate with 550. Ed Lillie and John Freitag divided the Expert awards in these two matches; and Doc Haas and McCartney had to out-score the Experts to lead the Marksman.

Walter Wennerberg and George H. Gorham, Sp. 2/c, USN, were the winners of the two Center Fire matches, with Gorham winning the Center Fire Aggregate with a score of 534. Gorham was also high Expert in the Grand Aggregate, .22 and Center Fire.

WESTERN REVOLVER ASSOCIATION MATCHES

During 1943 the Western Revolver Association (northern California) sponsored ten outdoor pistol matches and eleven gallery pistol matches. The outdoor matches were given by the Oakland Police and Fire Department Club and the gallery matches were sponsored by the Tamalpais Revolver Club.

The 1943 champion of the outdoor matches was Chief Petty Officer F. Bob Chow, USNR, on duty at the Alameda Naval Air Station as an instructor in the gunnery school. His average over the National Match Course was 283.75. He is a Chinese, better known to pistol shooters of past years as F. Bob Jowe.

The 1943 gallery champion was Lieutenant Commander L. E. Wadman, USCGR, with the Coast Guard in San Francisco. His average over the NRA Short Course was 284.64.

WEST COAST MEETING

The annual meeting of the West Coast Rifle Club for election of officers was held in San Diego, December 5th. Jack Voorhees was elected President for 1944, with Lindsey King named Vice-president and Roger Scott, Secretary-Treasurer. Eighteen new members were accepted during 1943, and eighteen old members are now in the armed forces.

Mrs. Ruth Davis, winner Glendale rifle trophy.

COMING EVENTS

Registered Class "C" Tournaments

California, March 19—Annual Southern California Pistol and Revolver League Tournament. J. E. Cornell, 662 Arden Avenue, Glendale.

Iowa, March 26—Scott County Sportsmen's Ass'n All Center-Fire Pistol Tournament. H. J. Jensen, 930 14th St., Davenport, Iowa.

Pennsylvania, March 26—Blair County Pistol Championships. Altoona Rifle and Pistol Club. C. J. Code, 919 Penn Street, Hollidaysburg, Pa.

Louisiana, May 13-14—Fifth Annual Small Bore Rifle Matches, Crescent City Rifle and Pistol Club. Thomas L. Hollis, 6323 Patton Street, New Orleans 13, Louisiana.

Oklahoma, June 11—Magic Emire Small Bore. Veterans of Foreign Wars and Tulsa Rifle Club. Dixie Clark, 114 South Detroit, Tulsa, Oklahoma.

Nonregistered

Illinois, March 19—Gallery Championship for the State of Illinois, sponsored by the Illinois State Rifle Association. Y. F. Combs, 606 Lincoln Ave., Hinsdale, Illinois.

NATIONAL WILDLIFE WEEK

National Wildlife Week will be observed this year with the week beginning March 19. Proclaimed by President Roosevelt in 1938, the week has been sponsored each year by the National Wildlife Federation from its Washington, D. C. headquarters.

WOMAN WINNER

Championship trophies for the best competitive record during the 1943 season were presented to Mrs. Ruth Davis, rifle, and to Bruce C. Wagner, pistol, at the annual meeting of the Glendale Rifle and Revolver Club, Glendale, California.

Mrs. Davis, first woman in club history to receive the trophy, compiled an aggregate score of 4359 x 4400. Wagner's score was 2651 x 2700.

MEETINGS AND CONFERENCES

Announcements of the following meetings have been received and are hereby noted:

The 22nd Annual Meeting of the Izaak Walton League of America will be held in the La Salle Hotel, Chicago, March 30, 31, April 1st.

The North American Wildlife Conference, sponsored by the American Wildlife Institute, will convene April 24th for three days in the LaSalle Hotel, Chicago.

STOLEN GUNS

H & R .22 caliber pistol #122864, Hunter Model with twelve inch barrel. Twelve gauge Western Field Double shotgun #C36067. Sixteen gauge Browning automatic shotgun #A6971. Twelve gauge Winchester automatic shotgun with Polychoke. Notify S. Doppelt, 22 South Main St. Mansfield, Ohio.

Parker, double, AAHE #232232; Remington automatic, twelve gauge, #11F-340884; Winchester rifle, model 03, #122429; Winchester rifle, 25-20, serial 53, #10166; Winchester Hornet, model 54, #40533A; Schilling 30-'06, Mauser action #984; Colt Woodsman; Winchester (42) .410 gauge pump shotgun. Notify Sgt. Arthur L. Burrows, Police Department, Village of Pelham, N. Y.

Model 52 Winchester .22 Serial No. 41995A, standard barrel, standard folding leaf rear, Lyman globe front. Three center-punch dots on rear telescope block. Woolensack 25X scope in leather zipper case. 800 rounds .22 Western Long Rifle ammunition. Stolen from Dubois High School, Dubois, Pennsylvania. Notify H. T. Griffith, Coach Dubois High School Junior Rifle Club.

WANTED

Due to constantly increasing demand coupled with strict limitations on number of copies printed, we are unable to supply copies of the January, 1944, RIFLEMAN to subscribers who, through change of address or late renewal, failed to receive that issue.

If you can spare your copy of that January issue, you can do the NRA and some fellow subscriber a favor by mailing the magazine to us immediately. We will remail it to someone who will be very grateful for it.

Members of the NRA in the armed services are being decorated regularly for "meritorious service" and for exploits "above and beyond the call of duty." Getting this information from official sources would leave us the impossible task of checking *all* citations in all branches of the service against NRA membership rolls. We ask you, therefore, to notify us of any citations awarded to NRA members so that proper mention of them may be made in the pages of THE AMERICAN RIFLEMAN.

NEW BOOKS

"BASIC MANUAL OF MILITARY SMALL ARMS"

By W. H. B. SMITH

To quote Lieutenant Colonel G. B. Jarrett, Chief of Foreign Materiel Section, Aberdeen Proving Grounds, "This book is a military classic. It is of interest to every man who uses military arms."

Walter Smith's "Manual of Military Small Arms" is of interest and value also to nonusers of military arms who wish to know today's facts about the weapons in use today by the armed forces of all nations. It is a pictorial presentation of basic American and foreign small arms, illustrating by means of photographs and line drawings the operation, functioning, and field-stripping of the weapons, with terse, crisply written text adding other salient information on the history, use and quality of the arms. Pictures and text provide a skillfully synopsized manual of the gun under discussion; a synopsis easily understandable by the layman yet adequate to enable a reader to use the piece if one came to hand—knowledge immensely valuable to troops.

Evidence of the high value placed upon the book by military authorities is the fact that thousands of copies are on order to training schools, Post Exchanges, and other military distributing channels here and abroad.

W. H. B. Smith is a name already familiar to RIFLEMAN readers. To quote again from Colonel Jarrett's foreword to this book, "The author is perhaps the one person in the United States with the necessary combined knowledge of firearms, writing, and editing to bring this remarkable book into being."—E. B. M.

(213 pages, paper, illustrated, $2.00, Military Service Publishing Company, Harrisburg, Pa.)

PYROTECHNICS

By C. W. WEINGART

Although it is a manual and reference work for the manufacturer and craftsman, I think this faithful record of the developments in the field of pyrotechnics will also interest anyone who has been thrilled by fireworks and possesses a bump of curiosity. In detail, it tells how they are made, down to ingredients, mixtures, materials, tools, equipment, and methods. It was written by an authority, after ample direct experience in pyrotechnical research and manufacture, and published in 1943, which makes it practical and up to date. According to the list in the back of the book, a few others have been published on this general subject since 1540, but none later than this one and only a dozen in English. The author's purpose was to complete the record up to the present. The book is illustrated with numerous sketches.

Its straight information is more practical than technical, and not confused by too much chemistry, although the fundamentals are not overlooked. The decomposition of chemicals is explained briefly, including burning and the more violent forms, exploding and detonating. All types of explosive hazards are covered. These are also given separate treatment by type, by nature, and by degree, in repeated warning, some chemicals being dangerous alone, others in combination and certain combinations more sensitive than others. The required ingredients and methods of their mixing are discussed as parts of various combinations, practical or unsafe as the example might be indicated by the author. Complete formulae, with market prices, are given for the manufacture of various kinds of fireworks.—F.C.N.

(220 pages, fabrikoid, $5.00, Chemical Publishing Co., Inc., Brooklyn, New York.)

Harry Noon Renshaw

Colonel Harry N. Renshaw, Fighter Group Commander, age thirty-seven, died December 19th of injuries received in a plane crash somewhere in India.

Colonel Renshaw was a distinguished officer with an impressive military service record. Graduated from C.M.T.C. in 1925, he was an honor graduate of the University of Arizona, Cavalry, R.O.T.C., in 1928; was a professor

Colonel Harry Noon Renshaw, Air Corps.

of Military Science and Tactics, Tucson, Arizona, High School in 1929; an Ensign in the U. S. Coast Guard Reserve 1930-31; a flying cadet, 1931-32, and a Second Lieutenant in the Air Corps Reserve 1932-35. He entered the Air Corps as a private in 1935 and was commissioned Second Lieutenant the same year.

He was graduated from the Air Corps Tactical School in 1940 and, in 1941, was sent to Ecuador as an Air Corps Major, Chief of the United States Military Mission to Ecuador. While there, he was awarded the "Estrella de Abdon Calderon" by the Ecuadorean Government, and was recommended for the U. S. Distinguished Flying Cross, for having saved the life of Captain Bayardo Tobar, of the Ecuadorean Air Force.

In 1942 he graduated from the Fighter School Command, was commissioned Colonel and, in 1943, sent to India. He had at that time more than 4,000 hours of military flying.

Colonel Renshaw was National Junior Rifle Champion in 1924, National Inter-Collegiate Rifle Champion in 1925-27. He was a member of the United States International Team in 1929 and 1930 and an ardent supporter of and leader in the shooting game.

Earnest W. Lamb

Earnest W. Lamb, age forty-eight, died December 5, 1943, in Norwich, New York, as a result of a heart ailment. He was a great lover of the outdoors, of hunting, and of rifle marksmanship. He was a Life Member of NRA and a long-time member of, and active worker in, the Norwich Rifle Club. At the time of his death he was helping in the organization of a club for the young men of Norwich.

He held the NRA ranking of Expert Rifleman and had done considerable competitive shooting. He was unmarried.

Neil L. Grabe

Neil L. Grabe was born January 3, 1909, in Globe, Arizona. He became a member of the Miami Arizona Rifle and Pistol Club, September 1st, 1943. Stricken with infantile paralysis, he was placed in an iron lung and made a gallant fight for recovery. He was sent to Phoenix for further treatment but contracted pneumonia and died early in December, 1943.

Calvin Arthur Lloyd

Cal Lloyd is dead. The square-shouldered, square-shooting, Rock of Gibraltar of Marine Corps and American International Teams has saluted the Great Captain and signed the score card for the last stage of earthly competition.

A major at the time of his death, he was best known to the riflemen of Wakefield, Sea Girt, and Camp Perry as Marine Gunner Calvin A. Lloyd, the rank which he held during the decade preceding the war.

Few men have held a niche in rifledom's Hall of Fame similar to that occupied by Major Lloyd. A great shot himself, he had the all-too-rare distinction of having developed, or helped develop, perhaps more great shots than any man in this generation. His unfailing courtesy was the velvet covering for a nature as coldly competent and courageous as any in the Marine Corps. His words were few and always quietly spoken but their incisiveness left no doubt as to the confidence and force of will that lay behind the serene exterior. Men respected him and developed a man-to-man affection for him that was as unexcitable but as real as the man himself. These were the qualities that made Cal Lloyd one of the great rifle team coaches of all time.

Major Lloyd set a world's record in 1921, at Sea Girt, when he scored 101 consecutive bull's-eyes at 600 yards. He participated as an official or entrant in every important shooting match entered by the Marine Corps since 1911. He was a member of the U. S. rifle team of 1911 that won first place at the Pan-American matches in Buenos Aires. He was a firing member of the U. S. International Free Rifle Team in 1922, and was coach of that team in 1929. He was also winner of several individual pistol matches at Camp Perry and was a member of the Marine Corps Pistol Team of 1923.

He was coach of the Marine Corps team that won outstanding honors in the annual Tournament of United Services of New England in 1934. In 1939 he was commended by the Commandant of the Marine Corps for turning out an outstanding rifle and pistol team. These teams won the NRA Members' Trophy, the USMC Cup, the Wimbledon Cup, and the Herrick Trophy, all with record cores,

BRIDGEPORT, CONN., MAR. 1944

Rifle Remington

Possibles and Impossibles

by **FRANK J. KAHRS**

I received the other day a letter from an old friend in Wilkes-Barre, Pennsylvania. He had just shown some of Remington's 16-millimeter color films of shooting matches to his club, and remarked about the enthusiasm displayed by the audience which consisted of both men and women. This all took place at the annual meeting of the club and many of the men brought their wives along to the dinner.

It's an excellent idea to have the women folks at the annual banquets because it gives them a chance to meet people whom their husbands have met in competition, and naturally the women folks want to see what the other guys look like.

As a result of these get-togethers and the wives and daughters coming to the shoots with Dad, quite a few of the women folks have taken up shooting. Some of them have given the men real competition; make no mistake about that! Remember the gal who came to Camp Perry and St. Petersburg wearing the green pants? Boy, did she give the guys some real competition!

I often tell the story about the day at St. Pete when the wind was blowing across the range and some of the hot shots were absolutely at their wits' end to know what to do. They just couldn't get anywhere. Even the local boys who usually knew the dope were confused. But this gal, knowing nothing at all about wind, just sailed through that 40-shot match at 100 yards with 4 clean possibles. She gathered in all of the kale and the hardware that goes to first place and said nary a word.

The real story is, however, that the gal, knowing nothing about the wind, just figured that it would be better to hold them in the middle and let nature take its course. I've seen that same thing happen many times, and I still claim that most good scores are ruined by overdoping than otherwise. However, temptation to crank her over and back and forth is too great for a lot of the boys. They just can't leave that knob alone. It reminds me of the guy who is always tuning in something different on the radio set. He's just got to keep on tuning that thing to find what will happen—and he usually does.

Take the guy who goes to a shoot with anywhere from two to five guns in the trunk. Yes, he's still in the experimental stage, but he never gets out of it. And he never gets over being dizzy from the time he comes in until the time he goes out. So—beware of the man with one gun! And another thing to remember always—beware of the gal who doesn't know anything about wind!

* * *

Usually about this time of the winter we begin to think seriously of the annual mid-winter rifle and pistol matches in Florida. This makes the second winter now that we have only got so far as thinking about it, because naturally there are no rifle and pistol matches scheduled as of yore.

One of these days this war is going to come to an end, and somebody will remember that it's time to hold the mid-winter shoots again. I sure envy those shooters who live in semi-tropical places such as Florida, Arizona and California, where it is possible to shoot all the year around. I'm going to have a lot of hunting and fishing and target shooting to catch up with one of these days, and I'm figuring on one of the three states mentioned to spend my declining years in.

If any of you fellows who have patronized the mid-winter shoots in Florida in the past happen to be reading this column this month, let me remind you that these shoots will have to be reorganized all over again. So—it behooves some of us to remember this and get busy as soon as they blow the whistle and ring the bells in celebration that peace has come again. And right then we'll all get busy, and get things organized and operating on a normal basis—we hope.

"Kleanbore" & "Rangemaster" are Reg. U. S. Pat. Off. by Remington.

REMEMBER
MADE WITH RM

THERE'S ONE IN EVERY CLUB . . . . . The Chatterer

SO CHARLIE SAID TO JIM "SAY, IF YOU EVER SHOT A GROUP LIKE THAT I'LL EAT IT" - THEN JIM SAID TO CHARLIE.... ETC ETC
QUIET! IS THIS A RIFLE CLUB OR A LADIES BRIDGE BINGE!

Remington News

A PAPER FOR PEOPLE WHO SHOOT

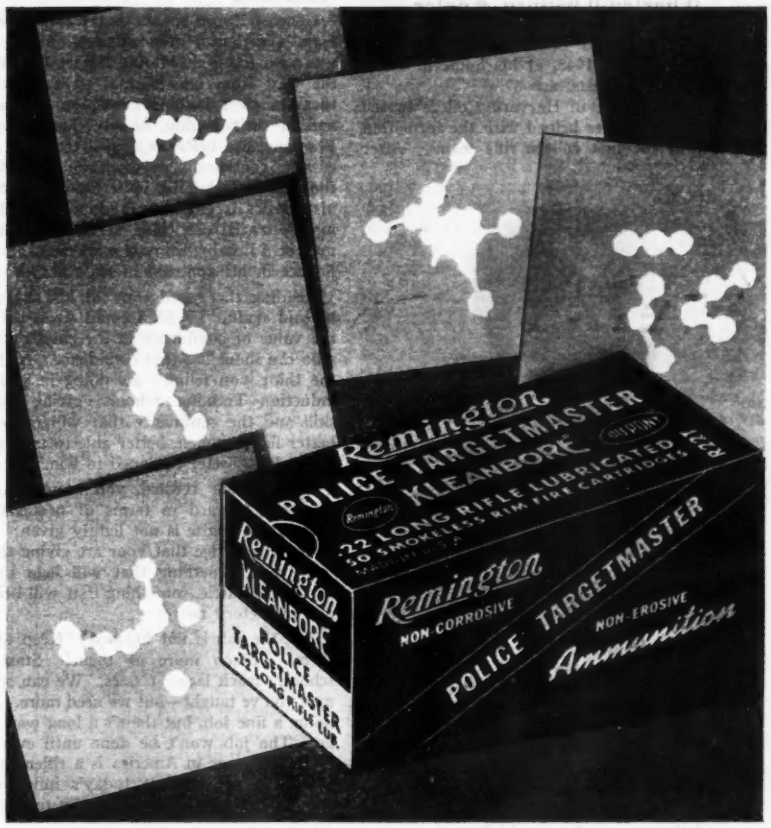
MBR THOSE TIGHT GROUPS RMINGTON MATCH AMMUNITION!

Lest you forget—we're showing you some typical 100-yard groups that were made in everyday testing of Remington Palma Kleanbore and Police Targetmaster ammunition before Pearl Harbor.

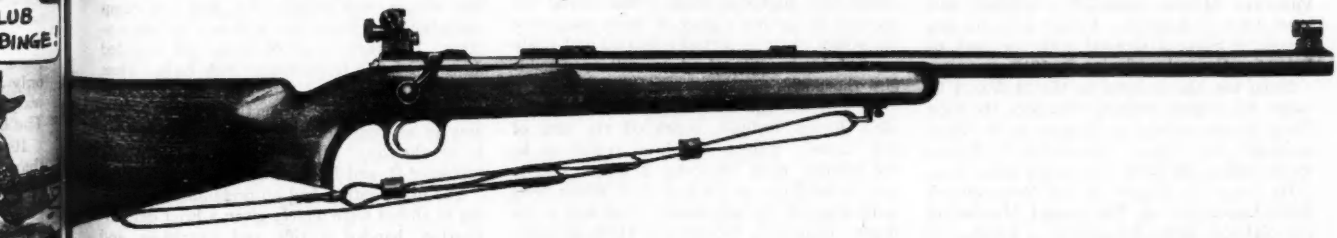
These groups were fired with a Remington Model 37 target rifle from a machine rest and the special Remington cradle.

They are shown in actual size. But even though the ammunition used was picked at random off the match cartridge production line, note the very small groups and the very fine group uniformity!

Remember—when ammunition is available again—that Remington match cartridges are as accurate and dependable as precision manufacturing and exhaustive control by testing can make them! *Remington Arms Company, Inc., Bridgeport, Conn.*



—AND THE FAMOUS MODEL 37!



are plenty of smallbore champions who swear by the ington Model 37 as the world's finest target rifle ufactured fully equipped for use on the range.

e of the much-talked-about features include—full with the high comb for careful sighting and the ational "miracle" trigger mechanism that's been hailed as the sweetest ever. It eliminates back-lash!

Yes, and there are any number of other "plus" features in the Model 37 which—all combined—make this the outstanding target rifle of all time.

Look forward to trying it—to *buying* it—not this year, but perhaps next year!

also winning the President's Match and the Wright Memorial Trophy.

Major Lloyd was commended by the Secretary of the Navy in 1930 for service in Haiti where he led twenty Marines in breaking up a mob of 1500 natives armed with knives and machetes. His Marine Corps service dates from 1908 to 1912, and from 1918 to the time of his death.

He leaves a wife and five children, and a host of Marine Corps and civilian riflemen friends all over the nation who will miss him.

Charles Chauncy Foster

Brigadier General Charles Chauncy Foster died December 3, 1943, at his home in Cambridge, Massachusetts, age 87.

While a student in Harvard College in the late 70's, Dr. Foster helped with the formation of one of the first college rifle teams. After

Brigadier General Charles Chauncy Foster.

graduation in medicine in 1883, he joined the Massachusetts Rifle Association in which he was a Life Member.

Due to his marksmanship, he was assigned a place on the Massachusetts Volunteer Militia team competing for the Hilton and Interstate Trophies at Creedmoor in 1886 and 1889. In one of these events he was high man.

He served as Surgeon throughout the Spanish-American War, retiring in 1901 as Lieutenant Colonel to engage in his specialty, orthopedic surgery. He served as Medical Director of the Second Brigade, Massachusetts Volunteer Militia, from 1903, retiring four years later as Colonel. A year later he was appointed Surgeon General with the rank of Brigadier General, resigning in 1913.

Being too old to serve in World War I he joined his original military company, the First Corps Cadets, serving as Surgeon in the Massachusetts State Guard throughout the Boston Police strike. He retired to private life in 1922.

He was a life member of the Massachusetts Rifle Association, an Endowment Member of the National Rifle Association, a member of the Loyal Legion and of many other military, medical, and hospital organizations, to all of which he gave liberal support. His active interest in marksmanship he maintained to within a few weeks of his death.

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

It would be difficult to phrase a more emphatic statement of the need by our armed forces for trained marksmen, or to pay a more glowing tribute to the NRA Pre-Induction Training Program in helping to meet that need, than may be found in Brigadier General Merritt Edson's fine article beginning on page four of this issue.

General Edson speaks not from theory but from experience. No dugout officer, Edson was with the First Marine Raider Battalion all the way from Guadalcanal to Tarawa, with them in their landing boats, on the beaches, and in their muddy, bloody, jungle foxholes. Few men are better equipped to make an accurate, considerate, eye-witness appraisal of the value of training in terms of results, and his verdict is emphatic and unqualified: The most essential one thing needed by a fighting man or a fighting army is marksmanship—confidence in his gun and in his ability to shoot.

Reading the typed copy of his manuscript, he said again, "I wish I could stress still more the value of confidence in the rifle. The man who can shoot has that confidence. And that's the thing you fellows are doing in your Pre-induction Training Schools: giving men the skill and the confidence that will make them better fighting men, better able to take care of themselves, better equipped to win."

There's your reward, you coaches and instructors: reward in terms of praise from a man whose praise is not lightly given; reward in the knowledge that your are giving the men you teach something that will help them to survive in battle, something that will bring the day of victory nearer.

But the job is not finished! "Keep teaching them! Teach more of them! Start more schools; teach larger classes. We can spot the men you've taught—but we need more. You're doing a fine job, but there's a long way still to go. The job won't be done until every man of military age in America is a rifleman!"

Only 4 per cent of today's inductees can shoot. We still have a long way to go!

REPORT FROM LONG BEACH

The Long Beach Rifle and Pistol Club, Long Beach, California, was fortunate in obtaining the Poly High School range in which to hold classes two nights a week. This solved the problem of finding a place to shoot and, since the school range is centrally located and easily reached by bus, it solved as well as possible also the problem of transportation.

As a result, the club has had a full schedule. Range facilities restricted the size of the classes. Fifteen has been found to be the number most efficiently handled. Sixty-four showed up for the first class, which gives some idea of the adjustments that had to be made. Guns were furnished by the instructors.

Ten rifle classes have been completed, involving 135 hours of class work, 1302 hours of instruction. Ninety-one students were graduated. Ten pistol classes have been completed, involving 108 hours of class work and 1444 hours of instructions. One hundred and thirty-one students were graduated.

"We need more room! Instructors are giving their time gladly. Our reward is in knowing that some soldier has been helped to come home safe and sound."

SIGHT PICTURE EXPERIMENT

From Sam Kennedy, President of the Beaver Valley Rifle and Pistol Club, Pittsburgh, Pennsylvania, comes the following report:

"We've been holding school after school and my figures show 317 pupils in all. It began with a class of 36 High School boys; just the first group of more than a hundred Beaver High seniors wanting pre-induction rifle training. Latest word is that another group thinks we should take them on too—which will mean that our instructors will have to work three nights a week all winter.

"Some of the boys were skeptical when told that no two of them saw the sight picture exactly alike. I picked three boys and had them superimpose triangles on the same card, not moving the card or the rifle. Result: a triangle of triangles, spaced about three-eighths of an inch apart from centers. To prove the result, three instructors, expert riflemen, made the same test. Result was almost identical except that triangles were naturally smaller and the three triangles slightly closer together, this time about three-sixteenths of an inch from centers. This was on a fifty-foot range, using a post front and peep rear sight."

TEACHING RIFLE WITH A BROOM

A broom, a rope, and a rooster won a big rifle qualification match at Great Lakes Naval Training Station, and thereby hangs a tale that demonstrates what the NRA basic rifle schools are accomplishing.

William L. Ebert, of Beaver Falls, Pennsylvania, one of the first graduates of the Beaver Valley Rifle Club's school, who had never fired before taking the course, not only won first place in the competition with six hundred apprentice seamen but coached the members of his company so that it won the rooster insignia giving it the right to "crow" over the other companies.

Ebert, as company clerk, learned a couple of days in advance that his outfit was to fire their qualifications January 3rd. The company had already won roosters for drill and camp sanitation and Ebert saw a chance to win another. He procured an old broom and whittled down the brush to resemble a rifle-butt. Then he tied on a piece of rope to serve as a sling and went to work instructing the company how to assume the correct positions and how to use the sling. He also drew a sight picture, explained it, and lectured on hold and squeeze.

The other entries had no preliminary schooling at all but were merely given a brief demonstration, handed a rifle and cartridges and ordered to commence firing. The boys of Ebert's company had such an advantage, even with their brief and highly original training, that they won the match easily, with Ebert taking individual high honors.

DOPE BAG

☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Flash tube experiments · Comments · Practical sizes · Durability · Drawbacks · Demountable heads · Tubeless front ignition · Safe compressed loads · Old .280 loads and bullets · Deteriorated loads · Cox Dope · Light .22 Rifles · Small bore experiments · Letters.

FLASH TUBE EXPERIMENTS

Several years ago, when the mysterious O.K.H. Duplex loads were first publicized in the shooters' magazines, we published some dope on flash tubes, or extended flash holes, in the Dope Bag. It created but passing interest, judging from the response at that time. More recently, we mentioned the O'Neil patented load and described its front ignition by flash tube, and this elicited a lively response from several widely separated sources. For the benefit of those qualified experimenters and research people who are or may become interested in extended ignition we are publishing some of those expressions here in the form of selected excerpts.

On the subject of experimental flash tube ignition, Harry O. Dean Jr. writes: "The cartridge shown in the accompanying sketch illustrates a method of experimenting with various ignition tube devices. When fully assembled the cartridge is of the belted Magnum type. I chose the belted design to insure precision headspacing for the powerful loads which might be developed in experiments. I believe steel would be satisfactory for the base, while the body could be of brass. It is also possible that a clean burning consummable plastic could be used for the body, leaving the base to seal the breech. I mention this merely as a possibility in later cartridge development.

"The basic idea behind this case was to create a method of experimenting with various types of flash tubes in an attempt to gain a more efficient combustion of the entire charge of powder. The flash tube is threaded into the base to allow easy replacement and also to enable the shooter to use tubes of varying lengths and diameters according to the type of load being used."

W. B. Elliott traces the flash tube idea, or its front ignition employment in cartridges, back to 1925, in his letter, just received, when he writes: "It is certainly a reasonable assumption that initial pressures would be reduced and, consequently, increased charges permitted if, in the short burning time, the gases did not have to move the 40 to 60 grains of powder together with the 180 grain bullet. This system of front ignition is shown in a Paradox Magnum cartridge in Jeffery's catalogue published in 1925."

Arch L. Foster mentions some drawbacks and the importance of restricting the vent diameter, after some experimenting with flash tubes in .257 Roberts cases. In his letter on the subject, he wrote: "Two drawbacks in the way of using this patented idea: It requires plenty of machinist's skill to install these tubes in this manner, and the tube threads wear rapidly under the heat and explosion impact; threads strip and the case is useless. This is the fact when the tube must be removed after each shot for decapping and recapping; a special tool must be used with lugs fitting into slots in the shoulder ring to remove and reinstall the tubes. When the threads strip, the tube is blown out of the barrel and lost, and that shot is very inaccurate. The flash tube is of brass, of course, although copper or any other metal may be used, I presume.

"On the first effort to fit these tubes, one tube was made the same inside diameter as that of the original flash hole; another was made with the same hole at the base for about one third of its length, then the forward end was drilled out to about 50% greater diameter, large enough to allow grains of No. 4320 to enter the tube. This opened up end was split wide at the first firing, and thereafter the same even size as the flash hole was used in all tubes.

"The idea is an interesting one. and considerable additional velocity may be obtained. However, it is also obviously an experimenter's trick, and I cannot see how it could be made commercially feasible." Mr. Foster was aided by Glenn Hyatt in altering his cases, which he described as follows: "A flash tube was fitted into an enlarged flash hole in the primer pocket. This tube has an opening exactly the size of the hole in the original shell, and extends into the case about 1/16 inch more than half way from the shell base to the beginning of the cone or shoulder. Tube is threaded into the enlarged flash hole with, I believe, 48 threads per inch. A shoulder is left on the tube immediately in front of the threaded portion, and the tube is screwed into its hole until this shoulder is tight against the case's inside wall, as insurance that the tube will not be driven back against the primer by the explosion's pressure. A special wrench was made to insert the tubes."

In a later letter, Mr. Foster referred to flash tube experiments again and his method of decapping: "I suggest that you avoid removing the flash tube when repriming the case, but that you provide means for decapping which do not require entry through the flash tube. I have worked that out by sharpening the tip of a small file at a blunt angle, forcing this sharp point through the spent primer and prying it out, using the heel of this blunt point as a fulcrum."

The .257 Roberts rifle used by Mr. Foster has a snug target chamber and is finely accurate but, of course, will not handle as much powder as a larger standard chamber. It is a heavy 28-inch Niedner barrel with 10-inch twist on a Mauser action equipped with a Winchester-Litschert 8X scope. With regular cases the maximum load in that tight chamber is 42 grains of No. 4320 with R.A. No. 8½ primers behind the Western O.P. 87-grain bullet. In flash tube cases this same load prints about 1¾ inches higher at 100 yards, and Foster has noted a flatter practical trajectory with it, although the actual velocity difference may be small. His heaviest load in flash tube experiments was 43.42 grains and the same bullet which showed slightly less drop over 300 yards than the factory load which gives the same bullet 3180 f.s.m.v.

The difficulty of replacing flash tubes and of decapping such cases has been given due consideration by interested experimenters. The demountable cartridge case mentioned by Harry Dean and described by the Dope Bag some time back was an invention of Norman Albree who used a steel head threaded to the body of the regular brass case. Such an arrangement would make the employment of experimental flash tubes convenient. James L. Gerry brought the first samples of flash tubes and adapted cases, shown to the Dope Bag, several years ago. He was already concerned with the same problem then and was considering the use of nitrated paper or other consumable flash tube material in order to simplify decapping of such cases.

C. B. Creamer solved it in an entirely different way. He coated his powder lightly with wax, using one grain weight of Ipco graphite wads to a hundred grains of No. 4350 or No. 4064, so the powder would cling together, instead of flowing, under light compression. A rod or wire of flash hole size was then thrust through the vent and held in the case, and the powder load lightly pressed around it, in order to leave a long ignition hole through the mass, after withdrawing the wire.

This tubeless flash hole also served as an additional air space to the normal space left between the base of the seated bullet and the powder charge. This air space is a combustion control and a safety factor which cannot be overlooked in any kind of heavy load, or the nature of combustion might change towards or into detonation with disastrous results. It is particularly important with such clinging powder as that used by Mr. Creamer and its "caked" effect or simulation.

It is also important in dry compressed loads where coarse powder and the large spaces between the kernels are relied upon for providing that vital air in adequate proportion. In fact, none of our quicker burning or fine-grained powders can be safely compressed, largely because of this air content requirement. Whenever this loading restriction is circumvented it is accomplished by compressing such propellants in subnormal cases and in loads so light that pressures are not raised above the maximum norm or normal peak of burning pressures for which that powder was designed. For example, No. 4198 can be compressed dry by 55-grain bullets in the .22 Lovell but not in bigger cases. Likewise, old I.M.R. No. 17½ could be safely dry compressed in the .30-40

Krag by the 110-grain bullet but not by any heavier bullet. In the .30-'06 we can dry compress No. 4350 by the 150-grain bullet but not any quicker or finer powder.

Regarding his flash hole loads in the .220 Swift, Mr. Creamer wrote: "This loading combines low chamber pressure, velocity, and accuracy to a higher degree than any other I have ever tried. My Swift cases (R. A. make) with 42½ grains No. 4350 and 63-grain Sisk bullet and W.R.A. No. 120 primer do not require resizing, not even the necks. The 50-grain 8S bullet with Winchester cases and No. 115 primers gives similar results with 41½ grains No. 4064. These loads penetrate ½ inch steel cleanly at 100 yards and seem to buck the wind and carry up better at 300 yards than factory loads. The 63-grain load is the best all around heavy bullet load I have found for this rifle.

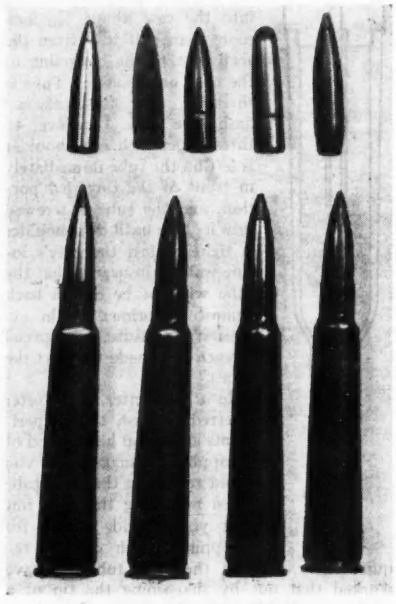
"In my .270 Winchester and Western cases with the No. 120 primer, a load of 59 grains No. 4350 and the 130-grain Western boattail bullet shows mild chamber pressure. All above loads were in cases that had been fired with regular loads and only neck resized. New unfired cases will not hold some of them. I feel quite sure these loads are easier on the barrel as well as on the cases." Mr. Creamer informed us also that he uses regular Ipco wads on the bases of his bullets.

COX COMBINGS

Herbert Cox sent us some .280 Ross cartridges of an earlier period, 1911 to 1916. He had found some which would not rattle when shaken because the powder charge had expanded in storage to fill its space completely. Either dampness or other deterioration had resulted in "swollen grains." Some fear of excess pressures from the "caked powder" was expressed, but the laboratories were too busy (shorthanded) to conduct tests. We broke down several and found dry powder even in one which had a cracked neck. It was probably old M.R. No. 10 which, we have been told, is Pyro cut in ⅛ inch lengths. We found one which could not be shaken and pulled its bullet, with difficulty because the seat was rough and corroded. Unlike all the others, this one had no airspace, or practically none. It would not have rattled anyway because the powder was "bunched," or lightly clinging together, in gobs. It appeared to be damp from moisture, but it may have been a solvent. It looked like Pyro (cut 11 to the inch) in an unstable state with the typical fumes of decomposition very apparent. In all the others the powder had been clean as well as dry and could be shaken, audibly. These well preserved ones were loaded with duPont No. 10, cut 8 to the inch, and the whole lot represented several makes, W.R.A., R.A., and U.S.

Smokeless powder in standard lots is extremely stable, but some of the older types do break down from exposure to air, improper storage, or extreme age. Undoubtedly the decomposition of the primer pellet is a contributing factor and even directly responsible in many cases. When the chemicals of the old primer and powder separate and escape, the outside of the case becomes heavily corroded, usually beginning at the mouth but sometimes at the primer pocket. We have an example of this in six old .280 Ross cartridges of the same make. Three of them remain clean while the others are badly corroded although we had obtained them in good condition and all as of the same lot. It is interesting to note that all the clean samples can be shaken while the corroded ones can't be rattled. Their powder charge is either "caked" immovably or all the space has been taken up as a result of gas expansion or moisture swelling. Loads in this condition should not be fired.

Evidently a great many different bullets for the .280 Ross have been designed and made, either in quantity or in special lots. Samples and remarks indicate these representative bullets had jackets of steel, copper and cupro-nickel; flat, hollow, and boattail bases; slender and blunter ogives in pointed forms, as well as 110-, 145-, 150-, and 180-grain weights. To mention some of these, there was the 145-grain copper tube, the 180-grain Match and 145-grain hollow point of steel, the 180-grain and 150-grain hard nose (F.M.P.) of cupro-nickel, the 160-grain Kynoch, the slender points of U. S. and Ross make and the fuller ogives of W.R.A. make and the different types of expanding noses in pointed shape. Mr. Cox, a Ross fan, says he stuck to the 145-grain bullet in his own shooting and got fine practical accuracy by thus avoiding all the confusion which arises from mixing the varying ballistics of the different loads with their different impacts. He said the Ross barrel was so finely made, of straight stock, that many people thought the bore had been lapped to a high polish. His idea of a barrel for maximum stiffness with reasonable weight is a 2½-inch cylinder 1⅜ to 1⁷⁄₁₆ inches thick abruptly



.280 Ross loads and bullets.

tapered to 1 inch diameter in an equal length and then tapered .010 to .015 per inch to a ¾ or ⅝ inch muzzle. This, of course, would require a 1½-inch blank or bar and a lot of turning down.

Mr. Cox brings to light the attitude of some of the ballistics laboratory people toward wildcat loads, based on their ready access to any kind of powder which might be required for any kind of combustion problem or job. Their reported unassailable attitude is that, regardless of shape or size, any properly loaded cartridge will consume its powder charge in two inches of bore travel. The words, "properly loaded," as used here are very significant. The ballistics engineer has many kinds and lots of powder available for as many different combustion purposes, and the powder maker can, if necessary, supply a special propellant for any special purpose in order to meet that proviso, "properly loaded."

The layman handloader is limited to those few kinds of powder which are packed in canisters and only to those lots of each kind which have standard combustion characteristics. For practical reasons he must be restricted to the use of these orthodox lots of powder because he lacks the facilities or means of safely or practicably utilizing any powder whose burning nature under varied conditions does not conform with that of some familiar brand included in the well known canister lot. There are about a dozen different brands of smokeless powder available to the handloader, most of them modern and all useful for the various different arms and shooting purposes. The rifleman with a modern high-power arm can adapt it for almost any shooting need by selecting the proper bullet and canister powder and handloading his ammunition for the particular pressure and velocity bracket which might be indicated. This might be a "whisper" load at 10,000 pounds pressure, or a reduced load in the 20,000 bracket, or a midrange load at 30,000, a moderate target range load at 40,000 or a full-power load at 50,000 pounds.

However, after he has selected his rifle, cartridge, bullet, and powder through careful progressive elimination he has shot his bolt. When his shooting purpose remains unsatisfied he cannot seek further improvement in a special powder. The only component he can change is the case itself. He might choose a smaller case and neck it up for a bigger bullet, but he usually picks some bigger case and shortens it before necking it down. Perhaps he is putting the cart before the horse but he does it logically. Since he cannot design and obtain a special powder to suit his case and purpose he fits his case to the most suitable powder available to him. In his subsequent experiments he alters, adjusts, and refines the cartridge until he succeeds in developing a load which satisfies his purpose.

When that happens another wildcat is born. It may not satisfy any laboratory criterion of excellence as its practical performance is the only measure of evaluation, but it must deliver the improvement sought before it can be considered as a finished job. Otherwise its development is continued until it delivers that optimum performance afield which alone determines whether it is properly loaded and completed. Although not always attained, the goal is always super-efficient combustion and, if reached, it is achieved by fitting a cartridge to an arbitrary canister powder instead of fitting a powder to an arbitrary cartridge case. Once in a great while an exceptional wildcat embodies a commercially sound idea and becomes adopted and developed into an equivalent factory load. Interesting examples of standard cartridges so stemmed are the .22

Hornet, .220 Swift, .250 Savage, and .257 Roberts.

About .280 Ross ballistics, Cox quoted the 110-grain speed at 3450 f.s., the 145-grain at 3250 f.s., and the 180-grain at 2850 f.s., all in 30-inch barrels, of course. In 1922 he got some U. S. 110-grain bullets with steel jackets, made before the last war. He said the original Ross and U. S. Match bullets had steel tubes and closely fitted points with almost invisible joining, which steel tubes led to the copper tube .280 Ross bullet for game. The steel bullets gave less bore fouling than those of cupro-nickel and, Cox says, they cause far less bore wear than the copper jackets. If this is the actual case, and I have no irrefutable reason for doubting it, the affinity of the copper and its tearing or gouging action under pressure and velocity against steel must be responsible.

Although the Ross action is a very strong one we do not recommend it to the uninitiated because it is not fool proof but can be assembled improperly, dangerously sometimes.

SMALL BORE MUSINGS

Charles H. Chapman, rifle club official, makes some comments on offhand shooting with reference to weight and balance, from which the following excerpts are quoted: "Weight has more to do with the offhand position than balance. A boy's rifle, built light throughout, can have the same balance as a heavier one but is much harder to make a good score with. The .22 Springfield balances about half a foot forward of the trigger like a double barrel shotgun but its 9-pound weight makes it a good offhand gun. In a lightened sporter with the (essentially) heavy action in the middle you have a gun light at each end and more liable to be thrown off aim by shock of recoil and nervous tremors than the heavier gun with weight more evenly distributed.

"Harry Pope, who visits our (Ossing R. C.) range occasionally and holds his annual Election Day match there, says that the old muzzle-loaders were made with extra long barrels to get the weight well forward without making them too heavy. Slow burning black powder had something to do with the lengthy barrels also. Still, I find my old Krag a much better offhand gun than the Krag carbine which I have discarded as too hard to hold. The extra long barrel of the Krag rifle seems to bear down on the left hand just enough to steady the aim."

Adalbert Tshirner had a light .22 rifle with a 20-inch barrel which placed the front sight altogether too near his sighting eye. His cure was a long pipe over the barrel which extended the overall length to 66 inches. The long, large tube dampened vibrations, added weight, increased the mechanical accuracy by the extended sighting base and, perhaps, neutralized any existing adverse influences of the muzzle blast on the emerging bullet, because the accuracy was greatly improved. Under favorable conditions it shoots long-range groups about twice as good as the average .22, and one-inch groups at 100 yards, although the outfit is light in weight and low in cost.

The ⅝-inch muzzle tube is 19½ inches long, and the whole rifle weighs only 6½ pounds. It has a Stevens-Springfield barrel closely chambered for Kleanbore and freebored ⅛ inch. Any greased load, such as Peters Rustless, fits very tightly. The action is a Hopkins & Allen falling block (similar to a small size Winchester highwall) in original condition and state. The stock is special; high at the heel and low at the tang, sweeping in a curve, for the purpose of providing head support in all positions. The pistol grip, glued on, is set at a slight angle to the right for a snug hold in all kinds of shooting situations. The fore end is screw fastened to the breech and the barrel left free floating. The sights are post front and aperture rear, adjustable by pliers or screw driver. Tshirner says his peculiar stocking or general design has worked so well it overcomes the fault of light weight and the lack of rigidity.

George R. Parizek also built a light .22 rifle with a 20-inch barrel. It also weighed 6½ pounds, including sling, Weaver scope with enlarged adjustable objective end and the Redfield Junior mount. The stock had a cheekpiece, pistol grip, buttplate with white spacer, and fore end tip and cap to match. It had the M1 receiver and M2 bolt of .22 Springfield actions. The cut down Remington Model 37 barrel was ¾ inch at the breech and had a straight taper to the ½-inch muzzle, which was crowned round. First, the barrel was tried free floating and it shot in all directions, radiating from the point of aim, with a spread equivalent to half a yard per hundred yards. Then, the tip was given some pressure against the bottom of the barrel by imbedding the latter in plastic at that point of the fore end. The spread was cut down by 10 inches per 100 yards. Next, a barrel band was used through the tip and adjusted by a spring loaded screw to pull down the barrel with a pressure of ten pounds. The accuracy was now reduced to about half a foot per hundred yards from all testing positions without sling. With extreme tension, or a painful pull, on the sling the groups shrunk, magically, to between ½ inch and ¾ inch at 50 yards, indicating the combination was inherently accurate. Vernor Gipson fitted barrel and action, the latter being trimmed as much as possible or practical for light weight. The stock was supplied by Bishop, and it is not small but hollowed out for lightness, leaving fillets and bridges for strength. Mr. Parizek is an engineer. He also has the inclinations and patience of a scientist and carried out his experiments with this rifle to an ultimate conclusion. At this point he concluded that vibrations were entirely responsible for the varying results noted above, and he installed a second band.

Western .22 Long Rifle high-velocity ammunition was used, and at least 25 shots were fired in each position. When shooting without sling, as stated above, and with fore end rest the groups measured 3 inches vertically at 50 yards. But when the barrel was held down by the added band, and with all other conditions the same, the groups became circular and only ⅝ inch in diameter. In another of the previously tried positions which gave 3-inch groups, they now shrank to ¾ inch with the second band in place, midway between receiver and tip. Before this middle band held down the barrel a peculiar effect of shooting this .22 was a whip-like recoil equal to that of the .22 Hornet and indicating considerable muzzle flip. Mr. Parizek believes a light barrel lacks adequate gravity for free floating bedding and must be closely bedded the full length of the fore end, or the middle band is required. He did not mention trying it with the middle band alone. He did say the balance was just forward of the front receiver screw.

When an erstwhile accurate .22 Match rifle suddenly quits performing with tight receiver screws, and the fault can not be traced to a change in the humidity (stock warp) or ammunition, there remains ignition, headspace, chamber, muzzle, and bedding to check for the trouble, and in about that order. A specialist in finding and correcting causes of small bore inaccuracy is Master shooter Paul Dodge of Yreka, California, and I have not hesitated to recommend him to all comers. James F. Wingo, who took a tip from the Dope Bag, has just reported a complete cure of his pet target .22 by Paul, and at very reasonable cost, he said.

* * *

Changed Cylinders Need Fitting. In looking over the Dope Bag note your answer to J. H. in regard to his .32-20 S. & W. revolver and would like to make a few remarks about the same. I believe that the revolver in question has had the cylinder replaced by one from another gun and does not fit right, as I have changed cylinders in revolvers and nearly always have to fit them. The numbers that he gives would indicate that such was the case. Also it would make the gun hard to cock as the cylinder would bind and cause more pressure on the hand. I think that if the cylinder were properly fitted that the trouble would be eliminated. I recently adjusted one for a customer that was almost impossible to pull double action, but now it is smooth and easy as it should be.—Chas. Graybill.

* * *

Powder Jams Revolver. On page 43 of the January, 1944, issue of "The Rifleman" I noticed a letter written signed by "J. H." complaining of stiffness of the action of his .32-20 S. & W. revolver. I may know the answer to his trouble.

About 30 years ago I had exactly the same trouble with my .38 Colt Army Special revolver. The symptoms were exactly those that he describes in his letter. At that time I knew of no one to go to for help, and it took me a long time to find out what was wrong; but after I found out, it took only a minute to eliminate the apparent stiffness and difficulty in getting the cylinder in and out of the frame. The whole trouble was caused by powder residue or unburnt powder grains that had lodged behind the extractor. This keeps the extractor from seating all the way down into the recess at the back of the cylinder, and although it is raised only a few thousandths of an inch, not enough to be noticed by the eye, it will cause all the trouble he describes.

To take care of this, simply raise the extractor as far as it will go, and carefully wipe the bottom of the extractor and its seat in the back of the cylinder perfectly clean and free from any tiny particles of powder or dirt. In the past couple of years of coaching our plant guards I have run into several cases of this same trouble, with both Smith & Wesson and Colt revolvers, and in every case it was quickly cured by the above simple treatment.—David P. Platt.

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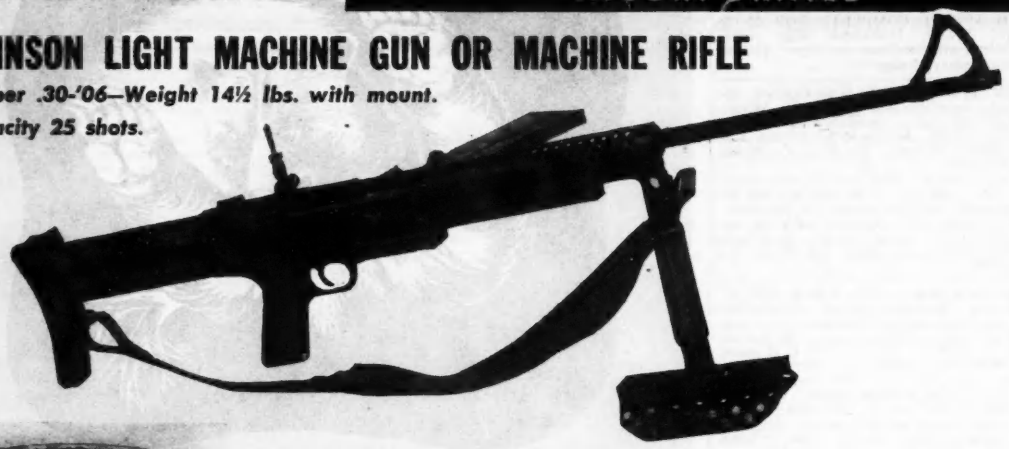

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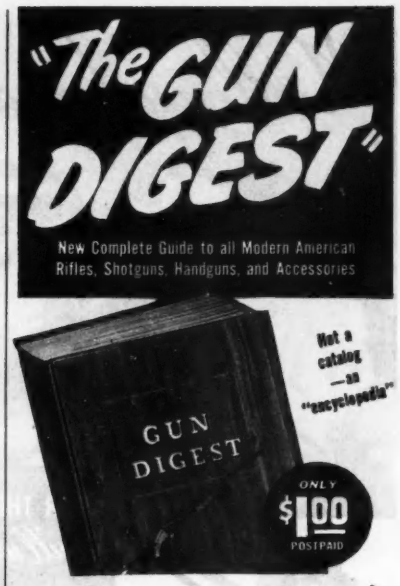

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5-SHOT STEVENS 39A, 64 ROUNDS 3", EXCELlent, $30.00. Winchester 11 automatic full, 75 rounds good, $50.00. Benjamin air pistol .177, good, ammunition, $10.00. Money orders. Several assorted boxes rifle and pistol ammunition. Wanted 8mm Mauser ammunition. Arthur Arnett, R 2, Albion, Michigan.

FOR SALE—WINCHESTER 52 SPORTER, EXC. to perfect, B mounts, mounted, no scope, Lyman 48F, 10 boxes ammunition, $124.00. Without mount, $118.00. Herbert C. Roux, 6921 Woodward Avenue, Bell, California.

SPRINGFIELD 45-70 RIFLE, FAIR, $5.00. ANother, good $10.00. Carbine, fine in, good out, $12.50. Winchester 40-82, 1886, good out, poor in, $20.00. 25-20, 1892, good, shells, $21.00. Stevens 6X scope, mounts, fine, $21.00. Another, 3X, fair, $10.00. Ralph Drake, Osborne, Kansas.

FOR SALE—12 GAUGE, PARKER DOUBLE, A.A.H.E. 32" Full Choke, single selective trigger, stock p.g., 13¾"x1½x2½", factory condition, $500.00. 11.2X60, J. P. Sauer & Son, Mauser rifle, matted rib, receiver sight, excellent, $80.00. 10.75 X 68, C. G. Haenel rifle, excellent inside, very good out, $80.00. 30-30 double barrel hammer rifle by S. Grant, London, rebuilt by Hoffman Arms Co., factory condition, $80.00. A. W. Reed, Greenville Jct., Maine.

SPRINGFIELD AS ISSUED, LOW NUMBER, good, box National Match, $27.50. Commercial Model, .45 A.C.P. handhoned, excellent except scratch stock, new spring shoulder holster, two extra magazines, 200 old shells, $75.00. 6½" Woodsmen, excellent in, bluing slightly holster worn, fair shoulder holster, extra clip, 500 Kleanbores, $75.00. Bisley 44-40, fair, $25.00. Fox Sterlingworth, 20 gauge, M&F, pad, two boxes shells, very good to excellent, $50.00. Stevens Browning, 12 gauge pump, rib, super Poly Choke, four boxes shells, $65.00. Remington double open bore, my best quail and dove gun, 12 gauge, old leather case, three boxes quail shells, $30.00. Money orders only, f.o.b. Pittsburg, Clay W. Lewis, 116 West Lindburg, Pittsburg, Kansas.

WALNUT HILL 417 HORNET, H. B. SCOPE blocks factory new, 175 rounds, $60.00. Ajack 4x42 scope and obsolete high type mounts (incomplete) very good, $35.00. German 9X pocket scope, excellent, $10.00. Mauser double set triggers, new, $10.00. Wanted—Ideal mould 285221, 135 grs. and 28-30 bullet die for #1 Ideal lubricating and resizing tool. J. Arthur Odi, 315-63 St., Brooklyn, 20, N. Y.

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FOR SALE—S&W M&P .38 SPECIAL, 6 INCH, Patridge front, notch rear, excellent, Heiser holster and cartridge belt, 450 factory and 200 reloads, all midrange, 44 full loads, $85.00. .30 DWM Luger, 4 inch barrel, Heiser holster, 40 rounds, excellent to perfect, $45.00. 6.35mm Mauser pistol, very good, $22.00. Imperial 10X rifle coat, 38, rubber elbow pads, excellent, $10.00. Mossberg scope and stand, excellent, $30.00. Ideal reloading tool #3, .38 special, $5.00. Money order only. Member. Vernon Jones, 51 Gleason Rd., Lexington, Mass.

COLT .38 SPECIAL O. T. M. 7½" BARREL. Targets grips, carrying case, 100 Kleanbores, excellent, $80.00. Winchester 94, .30-30 carbine, Lyman 1A, leather case, 40 Kleanbores v.g., $45.00. Winchester #40, 12 gauge 26" Poly Choke, carrying case, 100 shells, factory condition, $125.00. Winchester 52 Standard Target, 355 Weaver scope, Redfield 100A, Lyman 17A, 1000 L.R. Kleanbores, excellent, $115.00. J. H. Tanner, P. O. Box 198, Lexington, Kentucky.

FOR SALE—WINCHESTER MODEL 95 SOLID frame .30-40 carbine, fair condition and 100 Kleanbore soft point cartridges, $65.00. Winchester Model 86 takedown .45-90, shortened barrel and magazine, exceptionally easy handling, effective, brush deer rifle and 120 soft point cartridges, $50.00. Want Weaver 29s and "T" mount for Savage 219. W. S. Miller, 812 Triphammer, Ithaca, N. Y.

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FOR SALE—98 MAUSER ACTION, COMPLETE, good, turned down bolt, $22.50. L. Hamara, 116c-West Elk, Glendale 4, Calif.

OFFICERS' MODEL 22,. KING COCKEYED HAMmer, short action, hair trigger, perfect, $90.00. Officers' Model H. B. .38 perfect, $80.00. S&W .357 Magnum, 4", nickel hand action, cockeyed hammer, aluminum adapter, target sights, Eagle engraved handles, fancy hand carved shoulder holster, handcuff and shell holder, all ex. to perfect, $150.00. S&W 38-44 H. D. 5" blue, adj. target sight, factory condition, $75.00. S&W 38-44 H. D. 5" blue, ex. factory condition, $65.00. Colt 357 Magnum, 4", blue, ex. with holster, $80.00. Colt SA .45, 5½", blue, v.g. to ex., $40.00. Colt SA .38 W.C.F. 5½" blue, v.g. to ex. $40.00. Colt SA .38 special, 4¾", blue, v.g. to ex. $40.00. Colt Bisley 38, W.C.F. 4¾", blue, v.g. to ex. $45.00. Winchester 25-20 Lever, 24" bbl., full magazine, v.g. $27.50. Ammunition with gun, $2.25. Marlin 25-20 Lever, 24" bbl., full magazine, v.g. $27.50. Ammunition with gun. $2.25. Winchester 52 Standard, Winchester A5 scope with 16x attachment, adjusted butt plate, sling, ex. $65.00. Winchester Lever .32-40, 26" full magazine, excellent in, v.g. out. Ammunition extra, $35.00. Savage 99 E.G. 303, cal. 22", v.g. $35.00. Savage 99 E.G. 303, 20", sling, Lyman peep, pad, v.g., $40.00. Remington 35 Woodmaster Model 81 auto, excellent in, slight blue wear, $80.00. Ammunition $2.50. Colt P.P. 32-20, 5" blue, v.g. to excellent, $37.50. Colt Official P. 32-20, 6" blue, ex. $40.00. Colt Army Special 32-20, 6" blue, ex., $40.00. Colt Army Special 32-20, 5", blue, ex. in, v.g. out, $35.00. S&W., M&P., 32-20, 6½", blue, target grips, v.g., $35.00. Colt 38 Super automatic, blue with 2 boxes ammunition, ex., $75.00. Same, ex. in, v.g. out, $65.00. S&W .38 Special Target, 6", blue factory condition, $60.00. Model A. High Standard ex. in, slight blue wear, holster, $55.00. Woodsman 6½", perfect, $65.00. Hi-Standard 6½", perfect, $45.00. Belgium Browning 12 gauge 30", full, rib, ex. $85.00. Rem. 31 Special Trap, 12 gauge 30", full, rib, pad, ex. except scratches on magazine, $90.00. Belgium Browning 16 gauge, Weaver 1x scope, B mounts, Poly Choke, pad, ex. in, oil finish, $130.00. Winchester 12-12-30" full rib, pad, ex. in, some blue wear, $75.00. Winchester Trap 12-12 Poly, rib, straight stock, ex. in, blue wear, $80.00. Winchester 12-12-28" modified, like new, $70.00. W. J. Bath, Independence, Kansas.

SELL—LATE WOODSMAN 4½" AND 6½" PERfect, factory boxes, 100 Super X hollow points with each, $75.00 each. Winchester Model 70 Hornet, Winchester A5 scope, Lee Center Dot, rifle perfect except blue on trigger guard and butt plate, small scratch on stock, scope excellent (plain mount) $110.00. Willis Hamlett, 213 Goodrich Avenue, Silvertown, Ga.

KRAG SPORTER, GOOD, PACIFIC REAR Springfield front, shells, 1 box 93 gr. Luger, 1 box 160 gr. lead, $30.00. 100 primed and neck sized cases, $5.00. Winchester 92, .25-20 new barrel half round fired 25 times, half magazine 1 box shell, $37.00. Stanley Webb, Sheffield, Illinois.

CARL ZEISS 8X40 DELACTEM C. F. CASE, $200.00. Colt Woodsman 4½" new, ammunition, $75.00. 220 Swift 48 gr. factory ammunition, Sisk bullets, #120-9½-116 primers, empties. Prices on request. Ernest Fumasoli, 5937 Magnolia, Chicago, Illinois.

WINCHESTER 52 STANDARD BARREL, SERIAL #47968B with target stock, Marble-Goss rear, 17A front, Army sling, and sheepskin case. Excellent to perfect, $90.00 M. O. B&L drawtube, optically perfect with Freeland stand. $50.00 M. O. Charles May, R. R. No. 1, Quarryville, Penna.

S&W .357 MAGNUM 7", HOLSTER, EXTRA grips, 200 empties, B&M, bullet seater, excellent, perfect, $130.00. Out-of-state sale requires approval from Sheriff or ranking Peace Officer. E. John George, Box 373, Homer City, Pa.

FOR SALE—HIGH GRADE W. C. SCOTT 10 gauge 32 inch full choke Hammerless, with 75 shells, $75.00. Heavy barrel Winchester 52, Lyman 48 rear, 17A front sight, with 1000 rounds Western L.R. ctgs. $70.00. Winchester 97-12 gauge pumpgun fair. $25.00. Savage 12-gauge Hammerless pump gun, fair, $35.00. Lawrence Nuesslein, 3011 Greenleaf St., Allentown, Pa.

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REMINGTON 12 AUTOMATIC, 30" FULL, PAD, very good, 50 6c $80.00. Remington 81, 35 caliber, excellent plus, 100 Kleanbore cartridges $125.00. Winchester 70 Hornet, super grade, scope blocks, Lyman 48, excellent, 100 Kleanbore cartridges, $128.00. Winchester 70, .30-'06, open sights, sling 1¼", very good, 100 late issue cartridges, $85.00. C. H. Cubbedge, Orlando, Florida.

SELL—ATLAS BENCH LATHE WITH ¼ HORSE Motor, Independent chuck, three Jacobs chucks, centers and several assorted tool holders. This is a good accurate outfit. Money Order for $115.00. Robert Shively, 205 Orchard St., Marion, Ohio.

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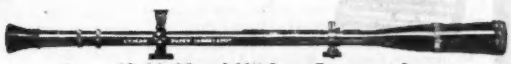

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COLT .380 POCKET AUTOMATIC, VERY GOOD plus, $39.00. Two boxes Super .38's, $5.00. Lester Tupper, 615 E. Gorham, Madison, Wis.

WINCHESTER 52 STANDARD BARREL TARGET rifle, speed lock, serial 20781. Marble-Goss rear, Lyman front, Government sling, outside good, inside very good. $65.00 Money Order. Risser Strickler, Quarryville, Penna.

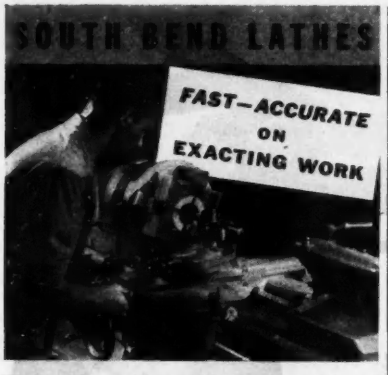
SELL—52 WINCHESTER H.B., VERY GOOD, reblued, restocked, Redfield and Marble-Goss, Argus spotting scope, Freeland stand, perfect. Details on request. G. F. Blake, 162 Jefferson St., Vandergrift, Penna.

GENUINE WAFFENFABRIK MAUSER 25 CALIber automatic with holster. Bluing worn some, otherwise excellent condition. $25.00. Arnold Dallman, New Paris, Indiana.

ONE LONG KRAG, NO. 138531, MODEL 1898, Springfield Armory, blade front, with protector, original back, plus Pacific micrometer rear, 1⅛ good leather sling, outside and inside good, no pits, no rust, last used by owner on rifle range who says it's accurate. 25 R. A. Co. ctgs. $36.50. One 7½" Colts S. A. 44-40, No. 78280, action good, outside fair, inside rough, original walnut stocks with 2 notches, no history, $10.00. Stamp please for further details. J. G. Chambers, 1227 University St., Wichita, Kansas.

SALE—IDEAL RELOADING TOOL EXTRA DIES, muzzle resizer for 38 special, 33 Winchester, 300 H&H @ $1.00, full length resizer 38 special, 218 Bee, 45 Colt, 2R Lovell @ $3.00, double adjustable chamber 270, 220 Swift, 218 Bee, @ $1.75, expanding chambers 300 H&H, 38 special, 30-30, 30-40, 220 Swift, 22 Hornet, @ $1.75, bullet sizing chamber 38 special, 357, 45 Colt @ $1.75. Used 45 automatic holster 89¢, 44 Colt cartridges $1.80. Warshal's, First Madison BB, Seattle 4, Washington.

REMINGTON SUNBEAM ELECTRIC RAZOR, OK, $13.00. Government ACP holster, good, $1.50. S&W .38 3¼" barrel, breakdown, nickel, DA, fair out v.g. in, $25.00. Tryon, Cornwall-on-Hudson, N. Y.



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SAUER THREE-BARREL, 12, 30-30, EXCELLENT in, very good out, $225.00. Remington .300 automatic, Marble peep, 330, excellent, $130.00. Nels Michelson, 2001 Devonshire, Lansing, Mich.

38 COLT KING SUPER TARGET. SHORT ACtion, cockeyed hammer, trigger shoe, Roper grips, sheepskin holster, 100 cartridges. Excellent, $125.00. 38 Colt OMHB honed action, Pachmayr adapter, sheepskin holster, 1100-1½ and 108 primers, 500 cases, 1500 bullets, 200 factory shells. Excellent, $115.00. 38 Smith & Wesson Military Police target. King ramp red bead front whiteline rear adjustable sights, humpback hammer, King honed action, Magnum grips, sheepskin holster, 100 cartridges, excellent, $75.00. 32 Colt OM 100 cartridges, perfect, $75.00. 22 Hi-Standard HD, King Semi-rib rear sight ⅛" undercut front, thumb rest grips, sheepskin holster, 200 cartridges, excellent, $75.00. 44 Colt Frontier 7½", very good, $45.00. 38 WCF Bisley Colt. Nickled. Outside very good, inside good, $35.00. King 4-gun revolver case, $22.00. American shooting glasses, $20.00. Alce Paris binoculars 8X with case, $40.00. Ralph Rees, 212 N. Quinton, Topeka, Kansas.

WINCHESTER TARGET 54-06 WITH SCHMITT reloader, extras, excellent, $150.00. Selected 52HB, no sights, excellent. $70.00. Stamp for complete description send no money. Paul Ferguson, 626 Campbell, Waterloo, Iowa.

FOR SALE—EXCELLENT OFFICERS' MODEL Colt .22 caliber, $65.00. A. E. Cameron, 1126 Ave., F., Galveston, Texas.

ENFIELD AS ISSUED, NEW, $40.00. S&W .45, 1917 King sights, excellent, $45.00. Have ammunition for both. Write for details. H. W. Hendrix. Box 130, % F. G. Wool Pkg. Co., Senter Road, San Jose, Calif.

BALLARD, HEAVY PETERSON BARREL, MARtin aperture, micrometer peep, full length 10X scope, sling, $60.00. Winchester 12-12-28, nickel-steel, $50.00. Springfield rolling block, 50-70, cartridges, $10.00. H&R .22, 6", poor $3.00. Dr. Lincoln Riley, Wisner, Nebraska.

KRAG 1898 ACTION, 26" NIEDNER BARREL, .30-40, throated for '06 bullets, polished, no sights, never fired, Niedner bullet seater, make fine sporter, $45.00. Unertl 12 inch 4X small game scope, Lyman mounts, new $40.00. Lyman sights: Springfield #48, used $9.00, Krag #34, new $7.00, #103 Winchester 53, new $10.00. Rifle compensator, .30 caliber, $10.00. Krag 1898 action, excellent, $15.00. I. M. Massey, Tensleep, Wyoming.

GERMAN MILITARY MAUSER 7.63, BOX shells, Heiser holster. all excellent, $75.00. Thomas Bean, 614 S. Dak., Sioux Falls, S. D.

SELL—31-12-28 REMINGTON PUMP CHECKered stock and forearm, excellent condition, not cheapest grade, box shells, $65.00. Model 121-22 Remington pump plain iron sights, additional Lyman peep sights, 2 boxes cartridges, $45.00. Boat, motor, trailer, write for price. C. L. Walser, Norwood St., Radford, Va.

REMINGTON AUTOMATIC MODEL 11-12 gauge, $62.50. Ithaca double 12 gauge steel barrels, $32.50. Mauser .30-'06 peep sights, $50.00. Colt Lightning, 38-40 round barrel, $22.50. S Colt double rifle, M loader, silver trimming, 36 caliber, $22.50. Remington hammer topbreak, lift, 10 gauge right rifle, 4082, $25.00. Want—Weston Master meter. J. W. Howell, Yorkville, P. O. Richland, Mich.

COLT .45 AUTOMATIC, GOVERNMENT MODEL, good inside, slightly worn outside, holster, $55.00. Colt Super .38 automatic, perfect, fired under 500 times, holster, $75.00. S&W .38 special M.P., inside perfect, bluing slightly worn, honed action, holster, $85.00. S&W 22-32, little used, perfect condition, holster, $55.00. Model 1917, S&W, D.A., .45 slightly used, holster, clips, $60.00. U. S. Springfield Armory Model 1922 caliber .22, inside excellent, outside very good. Lyman 48 scope mounts, $90.00. U. S. Springfield Sporter, 30-'06, scope blocks No. 1266855, excellent, carrying case, $90.00. Money orders only. Expressed collect. Carl Wild, 2877 Ida St., Omaha, Nebraska.

FOR SALE—45 COLT AUTO, FRANZITE GRIPS, new barrel, good outside, with holster and 50 cartridges. $50.00. 45 Colt D. A. 5½ inch barrel, excellent to perfect, holster and 90 cartridges, $55.00. Fred H. Hendrickson, P. O. Box 201, Central Village, Conn.

TROUTING BOOTS, U. S. BLUE RIBBON, 8'S, excellent, $10.00. Two-burner Kamp Kook, $8.50. Weaver 72 scope mount, $1.75. Chaplain Hilner, Byron, Ill.

SELL—L. C. SMITH SINGLE TRAP OLYMPIC Grade 12 gauge, 32" full. Gun has all extras, $70.00. L. A. Slater, North Syracuse, N. Y.

SPRINGFIELD '06 DELUXE SPORTER, FANCY custom stock, cheekpiece, Q.D. swivels, fore-end tip, grip cap, pad, ivory bead, Redfield #70ST., rear. Perfect out, excellent in, $85.00. Smith & Wesson .357 Magnum, 5½" bbl., cut from 8¾ by King, front and rearsights installed by King, Stag grips, perfect, $135.00. Perfect Hi-Standard, Model E, 4½, thumbrest, $75.00. 45 auto, 38 spl. 357 handloads, 5¢ each. Want 300 H&H M70, .270 M70, components, dies. Ray W. Morlan, 636 18th Street, Rock Island, Ill.

300 H&H REMINGTON ACTION SCOPE MOUNTS. Sukalle barrel custom stock not completed ready to dress down to your own ideas, fired less than fifty times, $125.00. 7x50 B&L binoculars, case, special mount for tripod, $150.00. Remington 37 latest model Marble-Goss rear, Redfield front, special selected, fired less than 500 rounds, $97.50. Telephoto lens for Contax 135 mm F.4 Sonnor leather case compartment for filters, $165.00. Duo 620 F3.5 Rapid Compur, $65.00. Speed Graphic 2¼x3¼ F. 3.5 Zeiss Tessar old smothe model, compur shutter. Kalart coupled range finder, Kalart flash, two pack adapters three double cut film holders, leather carrying case, $235.00, excellent. T. J. Imler, 536 W. Washington St., Phoenix, Arizona.

W65 BEE, EXCELLENT IN, GOOD-V.G. OUT, blocks, sling, 70 factory cartridges, 200 bullets, 200 primers, cases, Ideal tools, $65.00. .38 ACP outfit: 100 factories, adapted .38 spl. tools, 125 grain mold, $7.00. Want: new 2R cases. Henry Stebbins, Madison Heights, Va. RD2.

WALNUT HILL, 17A AND MARBLE-GOSS, V.G., $50.00. U.S.R.A. pistol, v.g., $35.00. Want .22 H&R Defender. Stuart M. Martin, Y. M. C. A., Ashland, Ohio.

MODEL 70 SUPER GRADE 300 H&H MAGNUM, new, unfired, with Lyman 48. Ammunition 900 rounds Silver Tip, 500, 220 gr. 400, 180 gr. $200.00. Homer Cox, 2206 Ann St., Catlettsburg, Kentucky.

20 GAUGE RANGER TUBULAR MAGAZINE 6 shot bolt action, 20 shells, excellent, $30.00. H&R 922 excellent 50 L.R., holster, $18.00. H&R Premier, .22, H&A model 1901 .32, H&A Dictator .32 all 3 for parts $4.50. 20-gauge Ranger double FM, very good plus, $32.50. Winchester 12-12-30 modified excellent, case rod, $75.00. Ray Augspurger, Winchester, Indiana.

FOR SALE: MODEL 70 WINCHESTER HORNET Standard grade with 8X Lyman Junior Target Spot, very good, $110.00. Remington Sportsman 16 gauge automatic, Poly Choke, solid raised rib, recoil pad. 7 boxes shells, very good, $90.00. L&C Crown Fly Rod No. 301 -8' -4½oz. excellent, $20.00. Will ship C.O.D. examination privileges. Anton Mrass, R.F.D. 1, Monticello, N. Y.

BALLARD 22 S. S. RIFLE HUBALEK BARREL. Write for description. R. R. Osmond, Cortland, N. Y.

SELL—VOIGTLANDER 8X40 NAVAL BINOCUlars, $40.00. Write for details. All issues American Rifleman, 1931-1943, few torn and missing covers, $17.50. Rudolf Grim, Gardiner, Montana.

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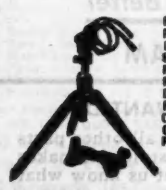

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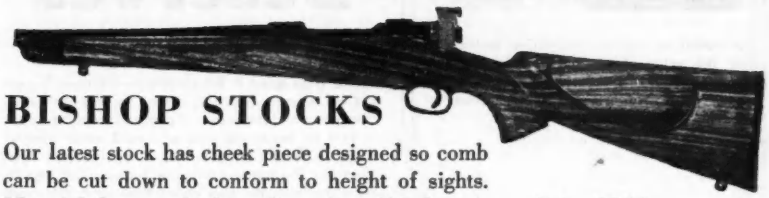

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WINCHESTER MODEL 64, CALIBER 30-30, V.G. to excellent, 11 old S.P. cartridges, 19 empty cases fired once, $60.00. Winchester Model 61 smooth-bore (Mo-Skeet-O) v.g. to excellent, fired 50 times, slight leading, 500 Super X shot cartridges, caliber 22, $35.00. Stevens Model 418, good to v.g. 100 K.B., $18.00. Money Orders. Want—Winchester 70, 30-06, at reasonable price. P. R. H. Washburn, Alstead, N. H.

.25 MAUSER, EXTRA 6" BARREL GOOD, 85 loads, $37.50. .22 Winchester Model 90 inside perfect, outside fair, $30.00. Want 50 grain factory 22 bullets, 22 Revolver, excellent, 6½ primers. Harry Wood, 2633 Indiana Avenue, South Gate, California.

30-06 SPRINGFIELD SERVICE STAR GAUGED. 330 Weaver scope mounted and ammunition, excellent $115.00. Wanted—Winchester 52 Sporter, Remington 37 with scope, Winchester 70 Hornet with scope or what have you in 22 rifles and scopes of equal value. Must be excellent. Donald Dougan, Poseyville, Indiana.

SELL OR TRADE—H & R .38 S&W NICKEL AS is $7.50. .22 Crosman Repeater, v.g., extra new parts, pells, $17.50. Winchester HW 32-40 #3 half octagon good or better, action perfect in and out, no sights, complete new tools, $33.50. Complete shop size professional blueing outfit, $37.50. Trade—400 .22 LR Peters Target for same any make Hollow points. 125 .45 A.C.P. fresh stock and 10. 35 Remington for 30-06 points. 100 NMNC primers and 1000, .30 gas checks for 500 .22 LR HS. Want—.22 handgun and target rifle. Winchester 8X scope. .38 Special Pacific seating die. 440 Weaver. B. A. Weldon, 11718 Mayfield Avenue, West Los Angeles 24, California.

SELL—1917 COLT 45 WHITE GRIPS ABOUT 2 boxes loads, clips, excellent $55.00. S&W heavy military 38-44 target, king ramp, excellent except some blue worn, Buchanan action 6 inch barrel, $85.00. .38-40 Colt Frontier, 5½, good, $25.00. Remington 41 Derringer, good, loads, $10.00. 800 uniform stiff reloads, 38 Special, nickel $4.00 per 100. Heavy model Peerless cuffs, excellent, $15.00. Wanted—Enfield 22 inch or longer or barrel & action complete, Remington 50 pistol. R. B. Wilson, 620 Meeker St., Delta, Colorado.

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SELL — 8MM. REMINGTON LEBEL, VERY good plus, $25.00. New Redfield Jr. 70 mount for Alaskan, bushed to fit Weaver, $13.00. .3095 bullet sizing die, $2.50. 30-06 shell trimmer, $2.50. Both fit Pacific tool. 200, 30-06 cases, fired once, $2.00. New H&G 150 grain twin-cavity mould for .270, $9.00. Trade: 75 shotgun shells, 16 gauge, 7½ shot for 100 factory Hornet cartridges. New .270 Pacific tool for same in K-Hornet. 1½ lbs. 3031, 1 lb. 4064, 400 #9½ primers for 400 Hornet bullets. 400 #8½ primers for 400 small rifle primers. H. Carmichael, 395 Houston, Coalinga, California.

SALE OR TRADE—ONE 45 A.C.P. GOVT. Model, inside excellent, outside reblued, holster, two extra clips, 55 rounds 1918 issue. $50.00. Will trade the following for large pistol primers or will trade all items in this ad on Winchester 52 standard, speed lock or S&W Kit gun in excellent condition. 14, 30-30 F.M.J. 43, 38 Long, Western, above are old, not guaranteed. 40, 32 Automatic Remington, S.P. Primers—50, Winchester #2 improved, for black powder, 90, Winchester #4 marked W, for smokeless shot shells, 300, U.M.C. #3 for smokeless powder. Marion F. Reed, Cassoday, Kansas.

.357 S&W MAGNUM, 6" BARREL, PERFECT inside, excellent outside, 100 handloads, $125.00. Commercial .45 Colt Automatic, perfect inside, very good outside, 150 F.A. cartridges, 2 extra magazine, $75.00. 3000 small and 2000 large NMNC pistol primers, $10.00 per thousand. 200 rounds 30-06 F.A. '30 and '33, 150 rounds 1918 ammunition, $18.00 for lot. Money order only for above. Trade 450 rounds .22 Winchester automatic, hollow point cartridges for good Krag action, complete. Wanted, American Rifleman prior to 1937. Also Arms and The Man. F. W. Borrish, 1547 Melrose Drive, S. W., Atlanta, Ga.

FOR SALE—WINCHESTER 65, 25-20, BORE EXcellent, outside good, 138 rounds, $60.00. Or trade for equivalent in Colt Frontier, S.A. 5" barrel and cartridges. Walter E. Deppen, 108 West Jefferson St., Tipton, Indiana.

357 COLT NEW SERVICE MAGNUM, PERFECT, 4" barrel, honed action, broad trigger, holster, 300 cartridges, $100.00. 2000 nickeled 38 Special cartridges and 2000 NMNC primers, $50.00. Prefer to trade above items and 30-06, 300 S, and 270 reloads on following *items wanted:* Noske or Alaskan scope optically perfect, 30 caliber and 270 expanding bullets and bullet moulds, electric furnace, fine checkering tools, perfect varminter with components and dies. Ralph Imler, 2352 So. Race St., Denver, Colorado.

LUMINOUS FRENCH BINOCULARS, 8X, leather case, very good, $45.00 or trade very good, Elto Pal. George Fulk, 222 E. 7th Street, Bloomington, Indiana.

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MODEL 70- 30-06 HOODED RAMP FRONT standard rear, sling, used one season, v.g. to better, $85.00. Springfield Sporter #1094928, custom built stock, walnut, pearl inlaid, 48 rear, Webb sling, small flaw in stock left of bolt, otherwise perfect in and out, $95.00. Springfield issue #998,788, National Match Stock, sight covers, sling, 48 rear mounted also, v.g. to better, $85.00. 45 Colt Auto. Commercial latest model, perfect in, holster worn in one spot rear of trigger guard otherwise perfect, Gov't reg. holster, belt, clip pouch, $85.00. 45 Colt D.A. v.g. to better, holster, $55.00. 9 mm. Mauser, wooden holster, v.g. in and out, 7 clips, $65.00. Ammunition supplied for guns at ceiling prices. Money orders only. Will trade any one gun listed for v.g. Colt Ace. Want—30-06 barrel for 98 Mauser action or Enfield barrel. Vern's Gun Trading Post, Box 181, Elmira, N. Y.

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TRADE—HAGAN COMMANDER GOLF CLUBS, 4 woods, 8 irons, 2-9 no putter, used one season, very good, bag fair, cost $117.50 new. Want—M-70, or M-720, caliber 257, 270, .30-06, Winchester M-12-12 trap grade, Winchester M-94 carbine, caliber .25-35, .30-30, Colts Woodsman, must be excellent, will sell, $90.00, or what have you to offer? Will trade, 270 factory load, for 22 L.R. at ceiling price. .300 SA. M-99 solid frame checkered stock, and forearm, perfect, 55 shells, $95.00. M-430 SA. 12-28", M&F., 50 shells, excellent, except small check in bottom of forearm, $65.00. Eldon Cornett, Rt. #6, Box 782-G, Mt. Clemens, Michigan.

½" ELEC. DRILL, SET OF BOLT DIES, ¼" TO ¾" both NF and NC threads, Toledo pipe stock & dies ½ to 1", air compressor, spray gun, ½ HP, 110 volt A.C. motor and some taps, drills, electrician and carpenters' tools. Prices on request. Want—Winchester Hornet Model 70 or target pistols. Frank Davis, 47 Robinson St., West Englewood, N. J. (member)

LATEST WINCHESTER MODEL 63, EXCELlent, $42.50. Want—.380 auto ammunition. Martin Ruedger, Carson City, Mich.

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30-30 300 SAVAGE 22 LONG RIFLE AND cash for new perfect rifle, Model 70, 30-06, 257 Remington Roberts; Model 65, Winchester Deluxe 30-30 or Special, Winchester 54, latest model in 30-30 or '06 or 357 Magnum, perfect. Willing to dicker. J. L. Blalock, R2, Moscow, Idaho.

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WANT LATEST SMALL MODEL BREAKOPEN 22 Iver Johnson; stam cheek rest; Hatchers Firearms Identification. Trade S&W heavy barrel K-32; S&W 22/3" perfected (Ladysmith); S&W barrels, cylinders, parts; Colt 32-20 cylinder; 32, 32-20, 45 ammunition, merit discs, vaver apertures; telegraph sounder; for home workshop tools. Trade Kitgun for 38 Colt Super. Ray Welker, 406 No. Harvey, Oak Park, Illinois.

WINCHESTER ENFIELD SPORTER, 29S Weaver, B mounts, no iron sights, French Walnut stock oil finish, inside excellent, outside very good, receiver drilled & tapped for Redfield 90 RW. $80.00. M.O. Wanted—12 gauge shells, 30-06 late issue & factory, 52 H.B. without iron sights. Charles W. Moore, 63 Crest Road, Ridgewood, N. J.

SELL OR TRADE—ARMY BAYONET WITH scabbard, excellent condition, will buy .22 Hi-power, 30-30 repeater or combination rifle and shotgun, and 30-06 rifles; with or without telescope. I will also buy ammunition in the following calibers: 250-3000, 22 Hi-power, 30-30, 303 Savage, .32 Special (Win), 30-40 Krag (issue) and 30-06 Gov't issue ammunition. These rifles and ammunition will be used for predatory control. All letters answered. Ronald Innes, Savageton, Wyoming.

TRADE — REMINGTON STANDARD DESK typewriter model 12, good; Winchester 92, 25-20 carbine, cartridges, good; Winchester 42-410-26" cylinder, perfect, 50 shells. Want—Firearms. Emmett Ewing, 2711 Fifth, Louisville, Ky.

TRADE—PRIMERS, 1,000 1½, 1,000 2½, 800 Winchester 35; 800, Winchester 24; for same value Swift bullets. Sell—Match Woodsman, excellent, $75.00. 500 cartridges, 1938 N.M., 8¢. Want—Swift reloading tools, factory ammunition. J. W. Clark, 415 - 11th St., De Witt, Iowa.

GOOD PARKER V.H. 16, $60.00, OR TRADE for excellent Winchester 21-16. Refinished Spencer carbine, $7.00; Colt conversion 38 rim, $12.50; excellent Colts S.A. barrel, cylinder, only $6.50. Want—Perfect Winchester 95—30-40. Priced within reason. Roscoe Nowell, Raymond, N. H.

29S WEAVER T MOUNT, $14.00. B&M #359165 two cavity, $7.00. Modern Bond #452660, $4.50. Trade 1,000 Remington #1 primers, 32-20 and 44-40 S.A. Colt barrels and cylinders. Want 4½" Woodsman, 8½ primers, 28-30 Stevens, 38 Special S.A. Colt cylinder, Winchester Hi-side. Edward Lucas, Route 19, Box 88B, New Brunswick, N. J.

22 P.P. TARGET, V.G. FRANZITE, $42.00; 12½# Ballard-Buhmiller 22, 30", P.G., blocks, excellent, $60.00; double 12 pin fire, good, 50 primed shells, $15.00; oil burner; large 3-phase motors, write prices. Want: 22 Special; 250 Savage. Peterson, 1616 No. 15th St., Lafayette, Ind.

SELL: 70 SUPER GRADE 30-06 REDFIELD WH receiver, gold bead front, Tilden safety, Whelen type sling, perfect, $130.00; 70 Super grade caliber 375 48WJS, gold bead front, Tilden safety, Whelen type sling, perfect, 7 boxes factory loads, 400-270 gr. soft nose bullets, 40 empty cases, $175.00; 12 ga double rifle, hammers, by George Smith, London, engraved barrels perfect, accurate, fancy cheek piece stock, weight 9#, two original bullet moulds and tools, $75.00; Model 81 Remington Auto. 35 caliber, perfect, $75.00; Model 12-12 ga. 30" full, extension forearm, special handmade stock, Winchester recoil pad, $70.00; Marlin OU 12 26" IC & MC, excellent, $40.00; 330S Weaver, tapered post, leather dust caps, $30.00; Zeiss Monocular 18 x 55, sole leather case, shoulder and neck straps, factory new, $80.00; Standard stock for Model 70, $8.00. Trade—Zeiss Zielvier with #4 Graticule, dust caps, perfect, with latest Redfield senior mount. Want—High grade double; 35 Whelen; #1 type A Noske scope. Joe Burkhart, St. Croix Falls, Wisconsin.

COLT .45 AUTOMATIC PERFECT IN EXCELlent out, 85 rounds, holster, for 6" S&W .38 Special M&P, K-38, or 38-44, like condition and ammunition. Sell $60.00. Lt. Frank Sessoms, Ordnance Research Center, Aberdeen Proving Ground, Maryland.

SPRINGFIELD SERVICE RIFLE, EXCELLENT, $50.00. Want Colt, S.A. for parts, Pacific dies, bullet puller .30 caliber, pay cash for a .22 caliber medium 26" or 28" barrel. L. E. Norman, 1366 F St., N. E., Washington 2, D. C.

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SELL—WINCHESTER MODEL 62 PERFECT, with 500 long rifles. $50.00. Trade—reconditioned electric sweeper for gun. R. G. Elston, Marshall, Illinois.

WINCHESTER MODEL 12, 28G. (FACTORY grease) ribbed barrel, 100 loads, $100.00. Consider 70, any caliber, and cash. "Single Shot" Ratliff, N4912 Market, Spokane, Washington.

KIT-GUN EXCELLENT, PACHMAYR, HEISER, cartridges, $60.00. Colts 380, Chrom, Pearl, excellent, $50.00 Want 4½ Woodsman Combination O&U Hi-Power. D. D. Eddy, Castile, N. Y.

ONE GOOD MODEL 14, 25 REMINGTON 38 Lyman rear 17A, folding leaf, 4 box 117 gr. express. Tapped for Belding & Mull scope. $55.00. For trade, good Winchester Model 12-20-2-¾-28 modified, 2 boxes shells for good Model 12-12 gauge. 370, 25 caliber 60 gr. H.P. bullets, trade for .22 caliber Sisk 50 or 55 gr. bullets or 70 gr. 228. Would take part Remington 8½ or 9½ primers. Pr. 10 x 32 Dumuier Paris binoculars, trade for 3,000 9½ Remington primers or would take part 8½, 70 gr. bullets for .228 Ackley, or 55 gr. Sisk Niedner bullets. 1 Model 1857, 45 caliber muzzle loading pistol. Lloyd J. Burkett, 204 Wilson Avenue, DuBois, Penna.

PARKER G.H.E. S.T. 20 GAUGE PERFECT, $185.00, Winchester 21 trap grade ejectors 12 gauge, perfect, $120.00. Want—Hi-grade three barrell or combination. H. H. Steck, 4828 "W" St., N. W., Washington, D. C.

SPRINGFIELD (STEVENS) GARAND TYPE rifle 22, perfect, $45.00, or Springfield M2, standard barrel 52. Peter Evasius, Quaboag St., Palmer, Mass.

FOR SALE — WINCHESTER 52 STANDARD, #64213B, Lyman 52 ext. rear 17A front, excellent plus, extras, $75.00, or trade for Colt Autos. Super .38 or .45 and .32 or .380 perfect condition. Mario Anesi, 929 Montana St., Chicago 14, Illinois.

HUBALEK 22 TARGET RIFLE, VERY GOOD, $75.00, or equal in camera. Wm. Sides, 502 First St., Greenport, N. Y.

SELL OR TRADE—KILBOURN HORNET, 2R Lovell, $75.00 each. Jack Miller, Route #5, Box 938, Waukesha, Wisconsin.

SELL—UNIVEX 8MM. CAMERA AND CASE: projector, screen, splicing outfit, excellent, $30.00. Want Springfield 30-06. Ed Erickson, 807 - 4th St., So. Moorhead, Minnesota.

COLT 1917 .45 GOOD, HOLSTER STAMPED floral design, $47.50. 100 cartridges on clips, $5.00 with gun only. Or trade for best 8-30 Bausch & Lomb binoculars or their equal. Elden Baxter, Davison, Michigan.

SELL OR TRADE—357 MAGNUM, 5½, EXCELlent, slight blue wear, $125.00. Want 38-44 Outdoorsman and $80.00. W. P. Karr, Abilene, Kansas.

SELL—MODEL 54 LOVELL LOTS OF COMP. new model 37 target, ammunition & extras. Details on both on request. Ithaca 12 double excellent in, $39.00. Lefever single trap, excellent in, $38.00. 45 Colt Auto. 50 cartridges, excellent, $45.00, long range barrel for 31 Remington new, $28.00. Trade—New 218 Bee dies Pacific tool. For Hornet dies. Or buy Hornet Dies. Want—22 and 25 caliber hollow point mould, and 22 LR Automatic. Otto Schmidt, Rt. #2, Box 434, Ft. Worth, Texas.

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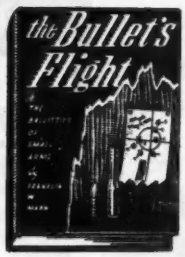
HI-STANDARD B-6-¾ EXCELLENT PLUS, $40.00. Colts 44-40 new service, factory carton, 7½" barrel, $65.00. Krag 30-40 carbine, good, $25.00. Winchester 1906, 22 short, long, long rifle, 62 barrel, good out, excellent in, $20.00. Winchester 1892, 25-20, extra heavy round barrel, 250 rounds 60 grain hi-speed H.P., very good, $50.00. Want—22 Bankers Special. Money Order only. Stamp please. Money back guarantee. Wm. E. Beard, 723 East Main, Clarinda, Iowa.

TRADE

TRADE—22 H&R SPORTSMAN, WITH INTERchangeable 2" defender barrel, as new, few scratches, with 500 22 long rifle shells, for, 1000-270 bullets, must be all same weight and not heavier than 130 grain. Sell—75 Winchester target, excellent, few scratches, $40.00. New Pacific Dies, full length dies, bullet seater, (219 zipper), $9.00. Full length die, bullet seater, 7:65 Luger $9.00. Wallace A. Springer, Hettinger, No. Dak.

EXCELLENT 7 MM. 70W BARREL, CASES, 7 mm. .30 bullets, few 22 L.R. cartridges. Want—.25 bullets, .270 bullets, cases, Ideal D.A. chamber, muzzle resizer, M97-12 gauge shotgun. Walter Carpenter, Eureka, Montana.



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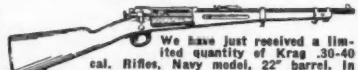

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TRADE—MODEL 40 SAVAGE SUPER SPORTER, 300 caliber, excellent in, very good out, 3 clips, 2 boxes shells, Lyman peep, folding leaf middle sights. Want—New Model 81A Remington .32 or .35 caliber. Dale Weeks, Belle Fourche, S. Dak.

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TRADE ONLY—WINCHESTER 70, 270, 24" Standard weight and grade, Lyman 48WJS, perfect inside, excellent outside, fired 30 rounds. 190 factory loads, 200 jacketed bullets. Want .257 Remington 720, 30, Winchester 70 with open sights or without sights, components for same or ammunition, or Remington 32TC. New 330 with cross hairs for perfect to new Enfield as issued. 1,000, 22 Long Rifle shells for complete heavy Mauser action or rifle. 600 bullets consisting of the following: 40 grain Express, 41 & 50 grain super Lovell, 46 grain hollow point Hornet bullets, 63 grain Express and 50 grain Custom made soft point for 600, 100 grain or heavier bullets for the 257. Will pay difference. Ferd Bollman, 294 Berry St., Lemon Grove, Calif.

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TRADE — LIMITED QUANTITY PISTOL primers, 410 and 12 ga. shells and 22 L.R. Kleanbore. Want—Colt Ace, prefer service model. Ivan O. Humbert, R.R. #3, Muncie, Indiana.

TRADE—TRAP GUN REMINGTON 31 TC. ventilated rib 30" full 12 ga. perfect. Winchester 12, 20 ga. 26" mod. perfect. Want—Remington 32 trap S.S.T. ventilated rib, full, perfect. 21 Winchester S.S.T. 26" tournament 20 ga. perfect. Walter Gaw, 1004 Irwin St., Aliquippa, Pa.

WINCHESTER 12 GA. MODEL 12 FULL CHOKE 28" barrel, brand new in factory box. Will trade for Winchester 52 standard model brand new in factory box. Charles Leasure, Jr., 181 W. La Laclede Ave., Youngstown 7, Ohio.

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CASE .38 SPECIALS KLEANBORE FACTORY. 500 ACP's late. Want: Hi-standard "E" Match Target or any Match grade .22 pistol; .38 O.M. C.H.B.; 52. Write please. Jake Kuehn, 1810 S.W. 17th St., Miami, Florida.

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TRADE—IVER JOHNSON .22 SEALED EIGHT, good for Pacific scales complete. Also want some large rifle primers. Henry Hildreth, Armstead, Montana.

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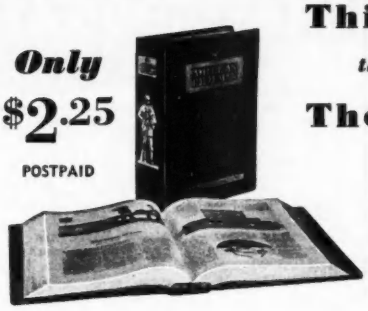

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TRADE—FAIR KRAG CARBINE AND M1891 Italian Carcano carbine, folding bayonet, for issue 1903 Springfield. Springfield 45-70, bore poor, $8.00. Tom Gildesleeve, 345 West Oak, West Lafayette, Indiana.

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TRADE—ONLY 3 BOXES 3" ARROW EXPRESS 4¼ x 1⅝ x 4c 150 bullets only, 30-30 S.P. 200, Remington open point, 200 S.P. 224. Hornaday Hornet, carton 500 LR Western Super Match. Want—Small rifle and pistol primers. Trade—Savage 23D Hornet, 29S scope, sling strap, Want—16 ga. model 12 Winchester, 28", full choke. Sell 45 caliber S&W Schofield, 5" barrel, 1 box factory loads, empties, Ideal tool and mould. Flintlock double barrel shotgun, 28 gauge, working order. $40.00. Starr 6" barrel D.A. cap and ball revolver, working order, $12.50. O. A. Trandum, R. R. #1, Oslo, Minnesota.

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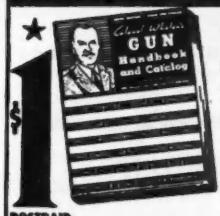

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WANTED—SAVAGE MODEL 23-D 22 HORNET, excellent, with 6 boxes factory ammunition. H. B. Pennington, Box 217, Lockney, Texas.

WANTED—SHOT OUT BARRELS, WINCHESTER .220 Swift, .250-3000, Model 30 Remington .25, Springfield M1 .22. M. S. Reynolds, 746 West 28th St., San Pedro, Calif.

WANT—BOOKS ON GUN RELOADING, OLD gun catalogs, heavy padlock, Colt percussion Navy. Fred Wainwright, Grayling, Michigan.

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WANTED—POTTER LEAD TESTER, 2" S&W 38, 44 special target, moulds, modern rifle II, firearms books. Lawrence Newton, Auburn, Mass.

WANTED—.270 MODEL 70 WITH OR WITHOUT scope, also ammunition. Lloyd Myers, Bristol, Tenn.

WANTED—TARGET TYPE SCOPE IN 6X TO 12X, Fecker, Lyman, or Unertl, also Winchester M70 in 257, 270, or 220. Walter Ambrush, 409 W. Union Blvd., Bethlehem, Penna.

WANTED—L. C. SMITH LIGHWEIGHT 12 gauge, double barrel 26" single trigger and automatic ejectors, cyl. or improved cyl. State condition and price. Gy. Sgt. Arthur A. Simon, 12th Rec. Bn., Parris Island, S. C.

WANTED—M70 OR M720, 270 RIFLE, MUST be excellent to perfect. Jasper Harner, R. #1, Buchanan, Mich.

WANT—KRAG RIFLE OR ACTION, AS IS, must be cheap. Dr. John P. Neu, 1057 Walker Ave., Oakland, Calif.

WANTED—WASHING MACHINE GASOLINE motor, Mead O.K. 2 Kyak, outboard motor, K22, folding .410, Luger magazines and parts, broken or damaged .45 Auto frame, 22 Springfield barrel and bolt or complete action, grain weights, for scales. Charles McCue, 127 Grove, Morrisville, Pa.

WANTED—MANUFACTURER'S GOLD GUN catalogs, also Hunter-Trader, Trapper magazine, published between 1900 and 1920. Wilbur Bliss, Ingalls, Michigan.

WANT—HUNTING SCOPES, ALSO ALL TYPES Weaver, Pacific Tool for 30-06. 20 gauge Winchester barrel for Model 12. Charles Fluckiger, Clayton, N. Y.

WANTED—WINCHESTER OR REMINGTON 257-270 or 30-06 with or without scope, perfect, also want 30-06 in 150 grain, 30-30, 257 and 32-40. J. M. Allen, (member), Northport, Wash.

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WANTED—WINCHESTER 95 CALIBER 30-40 or other lever action deer rifle. Nothing better than fair. William E. Dillehay, Box 3511, Phoenix, Arizona.

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WANTED—COLT OFFICIAL POLICE REvolver, 22 caliber, excellent condition. Earl Anderson, South Sioux City, Nebraska.

WANTED—SHARPS BORCHARDT ACTION, good condition, sell or trade Weaver 29S scope $10.00. E. W. Bres, 735 Adams, Denver, Colorado.

WANTED—WOODSMAN BARREL AND MAGAzine L.R. 9 mm DWM Luger, 4½" Woodsman, 1000 L.R., .45 Auto cartridges and mould, trade 1000 6½ NMNC for 2½ NMNC pistol primers only. Fred Mahany, Dansville, N. Y.

WANTED—44-45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

WANTED—COLT S.A. 44 SPECIAL OR S&W 44, Special, excellent and cartridges. Describe fully, all letters answered. Charles Tropp, 406 North College, Paris, Tennessee.

M-70 WINCHESTER & M54 WINCHESTER. Condition not material. Want actions. Arthur Shivell, 4323 Sunset, Los Angeles 27, California. tf.

WANTED—7 MM. SPANISH MAUSER ACTION complete or rifle. Barrel and stock immaterial. Must be good or better. Want .218 Bee and .22 Hornet ammunition. Member N.R.A. Albert S. Biordi, 3934½ Crenshaw Blvd., Los Angeles 43, California.

WANTED—MODEL 70—270—WINCHESTER EXcellent to perfect, standard grade, any sights, will pay your price. Henry Adolphi, 77-D McNeal, Bremerton, Washington.

SPOT CASH FOR GUNS AND AMMUNITION. Or Trade for merchandise from Free "Guaranteed Bargain Catalog" featuring thousands of Guns, "Hard-to-Get" items; send 25¢ (refunded with first order). Klein's Sporting Goods, 506 E South Halsted, Chicago.

22 CALIBERS MODEL '06 WINCHESTER, 1914 Savage, 303 British Ross '05, good, better. W. Whitcomb, Gladstone, Ore.

WANTED—1 REDFIELD JR., MOUNT IN GOOD to new condition. M54 Winchester, 29S Weaver. Will pay $8.00. Clifford Adams, 415 Grant St., Mercer, Pa.

WE PAY CASH FOR GUNS AND AMMUNITION. Alliance Gun Exchange, Alliance, Ohio. 7-44

KRAGS, ENFIELDS, SPRINGFIELDS, FRONTIERS and ammunition for same. Wm. Frewen, 700 W. Washtgnaw, Lansing 15, Mich.

300 H&H MAGNUM WITH AMMUNITION. Must be in perfect condition. State barrel length and price. Dr. F. J. Schini, Powell Bldg., Coeur d' Alene, Idaho. 3-44

DUCK STAMPS, 5¢-50¢ EACH. ANY YEARamount. Used-un-used. No torn-dirty. Send, must see to appraise. Box 810, Nampa, Idaho. 3-44

WANTED—WILL PAY GOOD PRICE FOR Model 1888 Mauser carbine. Must be very good to excellent both inside and out. State price. Write or wire collect to Dr. Russell C. Smith, Box C, Barron, Wisconsin. 3-44

WANTED—.380 WALTHER DOUBLE ACTION automatic PP or PPK Model. Capt. W. W. Watson, Spence Field, Moultrie, Georgia.

WANTED—FOR NAVAL OFFICER IN PACIFIC, Amphibious Force, perfect Service Ace and 45-22 conversion unit. Dr. E. L. Williams, 1321 Medical Arts Bldg., Houston 2, Texas.

SAVAGE 430 O&U 12, F&M, EXCELLENT, REASonable, also .22 Hornet cartridges. Henry Larson, Honeyford, No. Dak.

WANTED—LATE BOOKS ON FRENCH, GERman Ordnance; barrel .380 Remington pistol; 6 mm. Lee Navy Bayonet. Lt. L. W. Pollard, Ordnance Research Center, Aberdeen, Maryland.

WANTED—M70, .257 ROBERTS TARGET Grade, strictly excellent or better. Also consider buying .30-30 or .32 Winchester Special, very good or better for fair price. Wm. J. Seymour, Hinton, Iowa.

WANTED—COLT AUTO .32 OR .380 AND Super .38, new preferred. Member. Mario Anesi, 929 Montana St., Chicago 14, Illinois.

WANTED—SMITH & WESSON NEW DEPARture hammerless 38 blue or nickel; 22 caliber revolvers, any make; 32 caliber Colt pocket positive, short barrel; 4½ inch Woodsman. Carl F. Krausse, Hobart, Indiana.

WANTED—REMINGTON MODEL 141, .35 CALIber pump and Woodsman 4½. Ralph Dittmann, 427 Bender Rd., Milwaukee, Wisconsin.

WANTED—GOOD OR BETTER 5½" BARREL for 38-40 Colt Frontier, also 38-40 ammunition. C. N. Hicks, 740 South Madison, Wichita, Kansas.

WANTED—CASH FOR BRAND NEW AND UNfired Winchester 63 Automatic rifle, .22 caliber, with or without scope, and Colt .45 Automatic, National Match or Commercial Model. Also want .22 caliber Hi-Velocity Shot shells and 7.65 Luger shells, kleanbore or equivalent. Please give full description and price in first letter. F. R. Guy, Box 97, Montgomery, Alabama.

WANTED—TWENTY GAUGE ITHACA featherlight pump, perfect or excellent. Nat Breedlove, Valdosta, Georgia.

WANTED—KRAG, ENFIELD OR SPRINGFIELD barrel and action or Krag restocked, very good or better inside. Austrian 95 Steyr barrel and action or action v.g. Walter Whitcomb, Gladstone, Ore.

WANTED—7.63 MAUSER MILITARY PISTOL, very good to perfect. Colt 45 auto, poor or better. Issue Krag, very good to perfect. 303 British Enfield good to perfect. 9mm. Luger drum magazine. State condition, price. S/Sgt. Sedekum, 786 Ordnance Co., A.P.O. 450, Camp Livingston, La.

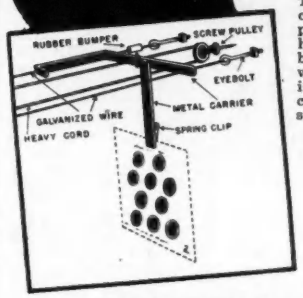
WANTED—HIGH GRADE 20-28 or 410 gauge English, German or Belgian over & under shotgun, excellent condition. Grant Pierce, 64 Alumni Avenue, Providence, R. I.

WANTED — .38 COLT AUTOMATIC, VERY good, ammunition. John G. Christensen, 6400½ Corson Ave., Seattle 8, Wash.

WANTED—2R LOVELL ON SS ACTION, COMponents. 32-40 Hi-Side or 44½", mould. Weights for Pacific scale. Describe fully. Sell for $40.00 (or trade) excellent 23AA Savage, Lyman, 48Y, sling, tapped for Lyman and Weaver bases. Alton Dexter, 65 Weybosset, Fall River, Mass.

WANTED—MOD. 52, ALSO MOD. 70 OR OTHER 30-06 with scope and ammunition. Hawn, Box 52, Alhambra, California. 5-44

FOR YOUR CLUB RANGE INDOOR TARGET CARRIERS



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WANTED—STEVENS 44½ 2R LOVELL, EXCELlent or perfect, components, cash, complete details. Norman P. Fauble, LaMoille, Illinois.

WANTED—HORNET, 25 CALIBER MAGNUM components, loading equipment, Winchester Highwall, Stevens 44½ actions. Will buy or trade. Hobart Sammons, 3433 West Jackson Blvd., Chicago, Illinois.

WANTED—EXCELLENT LOVELL WITH COMponents, also the Modern Gunsmith by Howe. Have 500, 2½ primers and 500, .22 L.R. to trade. Clare Breiholz, 403 Wesley, Ann Arbor, Mich.

WANTED—10 GAUGE MAGNUM, 12 GAUGE Magnum, and 44 X.L. shotguns. A. W. McLain, Rt. 2, Walla Walla, Washington.

WANTED—NEW OR PERFECT SAVAGE 19 Hornet and ammunition, preferably without sights. Trade, 3 boxes expert, 12 gauge, for Hornet factory loads. Chas. Telford, Canby, Minn.

WANTED—PISTOLS, ALL KINDS, 22 TO 45. Pay up to $75.00 and more for S&W 357 etc. Hawn, Box 52, Alhambra, Calif. 5-44

WANTED—FOR CASH: ANTIQUE PISTOLS, rifles, swords, daggers, world war rifles, relics, collections, single pieces. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-45

CASES FOR VARMINTER, .250, 300 SAVAGE, 7 mm. from .30-06, &c. Shivell, 4323 Sunset Blvd., Los Angeles 27, California. tf.

WANTED—COLT SUPER .38 AUTOMATIC PISTOL, late model, blued finish, fixed sights and ammunition. Must be perfect to excellent. Details first letter, all letters answered. Your price if meets condition. Want—Redfield micrometer receiver sight model 70-FH or FT. Prefer 70 FH. for Winchester model 71 caliber .348 rifle. Perfect to very good. Member N.R.A. Albert S. Biordi, 3934½ Crenshaw Blvd., Los Angeles 43, California.

WANTED—MODEL 70, 270 IN EITHER STANDard or super grade. Roy E. Weatherby, 7672 California Ave., Huntington Park, Calif.

WANTED—FAIR PRICES PAID FOR TARGET pistols, revolvers, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-69, 13 So. 16th St., Phila., Pa.

WANTED—S&W MILITARY & POLICE 2" BARrel, round or square butt. S&W Terrier, S&W 38 Special, M&P Target, S&W 357 Magnum 6½" or 8¾". S&W Kit Gun. Any quantity 22 Hornet ammunition, also bullets only for 22 Hornet and 220 Swift. Dies for Potter Duplex caliber 220 Swift and .22 Hornet, type C Service stock. E. S. Burrell, 717 Wyndmeor, Philadelphia 18, Pa.

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SHARPS RIFLES WANTED. PREFER FINE Creedmoor Target Models in near new condition with factory loading tools & cartridges. Especially want fine stocked models with 34" barrels. Also want fine heavy barreled Buffalo guns in complete original condition. Can use all calibers of loaded ammunition bullet moulds & factory catalogs. Write complete detailed description & cash price. M. C. Clark, 169 No. La Peer Drive, Beverly Hills, Calif.

WANTED—WINCHESTER MODEL 37 SINGLE barrel shot gun. Semi-hammerless, 20 ga. or 410, very good or better. Denver Purdy, Dawson Springs, Ky.

WANTED—6 TO 10 POWER SCOPE WITH ACcurate click mounts, also a few 6½ primers. Glen Maurer, Route #3, Elyria, Ohio.

WANTED—VERY GOOD TO EXCELLENT Woodsman or hi-standard, describe fully. Alfred S. Jackson, Box 144, Paducah, Texas.

WANTED—V.G. 22 HORNET S.S. ON WINchester or Stevens action, no stock or sights necessary. S. J. Swenson, P.O. Box 33, San Diego 10, California.

SINGLE SHOT LOW PRICE .22 RIFLES FOR boys rifle club. Scott County Sportsmen's Association, Davenport, Iowa.

WANTED—348 AMMUNITION. STATE PRICE wanted. Want Model 64 Winchester 30-30, very good to perfect. Harold Smith, Forsyth, Montana.

WANTED—BENJAMIN AIR PISTOL .22 OR .177 caliber single shot, must be excellent to perfect. All replies answered. Clyde H. Horn, ARM-1/c, U.S.N.A.A.S. Box 13, Lee Field, Green Cove Springs, Florida.

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Target Rifle

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Barrel:
Tapered ... medium weight.

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Selected walnut. Designed for combined hunting & target use.

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Large, open, for easy single shot loading.

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Lightning fast speed lock. Recessed bolt head, with additional locking lug.

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Military type ... best grade leather ... attached by swivels to stock and forearm.

A limited number of these fine rifles now available to member clubs of the National Rifle Association.

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WANTED—52, REGULAR WEIGHT BARREL, latest model, with or without hunting scope, or 52 Sporter. E. Keith Jones, 163 E. Palisade, South Bend 17, Indiana.

WANTED—WEAVER 29S, 39A MARLIN, EXcellent or better. Moulds, B&M 288140, 311169, Ideal 285346, 311413. Bond 311910. McGiverns "Revolver Shooting," "Rifleman," previous to 1931 or will buy lot including above issues. "Howes Gunsmith." Leon R. Wilson, Box 2531, South Bend 14, Indiana.

WANT—RECEIVER ONLY FOR MANNLICHER-Schoenauer rifle. Stock for Browning OU. Late W-94, 30-30 carbine. W70, 257. C. J. Hansen, 2711 N. E. 26th Avenue, Portland 5, Oregon.

WANTED—FECKER UNERTL OR LYMAN 10 or 12X scope, 70-06 or Springfield target grade rifle. Powder measure, ¼ click scope mount, 30 caliber bullets, describe fully, letters answered. C. McGuckin, 627 - 13th St., Huntington Beach, California.

WANTED—SAVAGE IN .32 OR .380 CALIBER latest model. Must be perfect and guaranteed. Frank Meca, Winlock, Washington (Life Member).

WANTED—.22 BLANKS; 12 GAUGE SHOTGUN shells; over-under shotgun; high grade stop watch. A. T. Mickle, R-4, Madison 5, Wisconsin.

WANT—SMITH OR COLT 38 SPECIAL, REvolver, in lower price bracket. Want—4 power scope complete for Winchester 75. Want—30-06 rifle reasonable price. Trade rifle, pistol ammunition, state wants, and offers. K. Pool, 2706 West 78th Street, Inglewood, California.

WANTED—1 OF EACH MODEL 70, .270, 30-06 target models, medium weight barrels, new condition. .270 and .375 gas checks, jacketed bullets and cartridges for same, 1 mould for #375449 Ideal cast bullet. .22 Hornet jacketed bullets. C. H. Rothermel, Alburtis, Penna.

WANTED—8MM. MAUSER AMMUNITION OR cases and bullets. Also 25 WCF, also military rifle. Edward Bastel, Prairie du Chien, Wisconsin.

WANTED—M70-30-06 STANDARD, LYMAN 10X to 20x Alaskan or Noske, 37 Remington or 52 Winchester. Glenn Wilder, Chardon, Ohio.

WANTED—COLT SUPER .38, S&W 38-44, COLT Ace, MT Woodsman and Colt 380, ACP. All v.g. to perfect with ammunition. All letters answered. C. A. Carr, P.O. Box 308, Grand Prairie, Texas.

WANTED FOR CASH—WINCHESTER MODEL 12, Magnum ribbed, Winchester Model 12, 26" ribbed modified, Winchester Model 12, 32" ribbed full. Lee Arnold, Marseilles, Illinois.

WANTED—B&L PRISMATIC SPOTTING SCOPE and Colts Ace Automatic pistol. Frank Millard, Climax, Kansas.

WANT—NEW SERVICE COLT 44 SPECIAL, 38 Special, 38-40 or 44-40. Aubrey Camden, Tye River, Va.

OFFER—$10.00 FOR GOOD 250-3000 SAVAGE 99 barrel, $12.00 for good, 22 Repeater; $15.00 for Springfield '06 action-good. Want—30-30 reamer. R. W. Winstead, Natchitoches, Louisiana.

WANTED—KRAG MILITARY RIFLES AND carbines, '03 Springfields, '17 Enfields, barrel condition immaterial, actions must be in fair condition. Bayonets for the above. Also complete reloading outfit tooled for 30-40 caliber. Powder, primers, bullets and cases. Replys to Sgt. Max Marquardt, 316 Rutherford Blvd., Passaic, N. J.

WANTED BADLY, 16MM. PROJECTOR, 8MM. Eastman movie camera, 38 caliber Detective Special 2" barrel. Will pay cash or trade. S. Doppelt, 363 Shepard Road, Mansfield, Ohio.

WANT—ELECTRIC DRILL, ½" PREFERRED. Send price, describe. C. E. Wasson, Riverton, Wyoming.

WANTED—COLT MATCH TARGET, AND 22 caliber rifle, repeater or automatic. State condition and price. Victor E. Recane, 424 No. Lockwood Avenue, Chicago 44, Illinois.

WILL PAY $60.00 FOR COLT'S MATCH TARGET Woodsman, excellent or better, also want Contax wide angle and telephoto lens. M. Bancroft, 602 So. Burris St., Compton, California.

WANTED—LYMAN TUBE SIGHT IN PERFECT condition. Will pay $18.00. A. Hubalek, 1167 Myrtle Ave., Brooklyn, N. Y.

WANT—38 COLT S.A. BARREL AND CYLINder, Plunger, complete. Must be excellent. E. Swain, 1412 E. Elm St., Davenport, Iowa.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also bayonets. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-45

WANTED—30-06 ENFIELD AS ISSUED. 7.65 or 8mm. Luger, with shells. Both excellent, full information. J. McKenzie, 72 Escondido Avenue, San Francisco, Calif.

WANTED—WINCHESTER MODEL 1895, CALIber 30-06 in excellent condition, describe completely, also one 70, 270 with cartridges or 70-06. Harold Forsberg, Appleton, Minnesota.

WANTED—38 AUTO, 32 S&W HAMMERLESS, 22 Crosman repeater and new 22 Hamilton rifle. M. Hatfield, Box 3, O'Keeffe, W. Va.

WANTED — 38 COLT, OFFICERS MODEL, heavy barrel, excellent. Ernest Roux, 727 Baker St., Bakersfield, California.

WANTED—MODEL 99 SAVAGE, PREFER 300 or 250 R or RS. Also Officers' Model or Outdoorsman 38 Special. Lawrence Westhoff, Rt. #1, Box 2116, Bremerton, Washington.

WANTED—STEVENS OR BALLARD SET TRIGger single shot action. Chester Nikodym, 1615 N.B.C. Bldg., Cleveland 14, Ohio.

WANTED—WINCHESTER 12-12, POLY CHOKE, excellent, will pay to $75.00. A. Anderson, 188 Bulkley, Sausalito, California.

WANTED—GOOD BUY IN USED .22 REMINGton 513T. Eric Liebenow, Box 785, Palm Springs, Calif.

WANTED—12 OR 16 GAUGE. REMINGTON O&U preferred. Percussion rifle. Mac McWhorter, Park Terrace, Corvallis, Oregon.

WANTED—TO HEAR FROM MY AD IN RIFLEman of May 1940, page 57. Rifle was not stolen, was legitimately sold to one J. S. Rogers, deceased, Niles, Michigan. Thad N. Billings, Middlebury, Vermont.

WANT—ONE HORNET RIFLE, WITH SCOPE, also one 3 inch 12 bore shotgun. Dr. N. Yeates, Lula, Miss.

WANTED—41 R.F. REMINGTON D.B. DERringer, excellent to perfect. Please describe fully. R. Marshlow, 208 Woodward, Buffalo, New York.

WANTED — GOVERNMENT ISSUE SPRINGfield Sporter stock. .256 Newton bullets. Earl Burgess, R.F.D. 7B, Waxahachie, Texas.

WANTED — AUTOMATIC PISTOLS, SYSTEM Mannlicher, Models 1894, 1896, 1900. Lt. W. G. Ogden, Rt. #1, Oak Harbor, Ohio.

WANTED TO BUY—ONE COLT WOODSMAN, 6½" barrel, in excellent condition. Address reply—Remington Arms Co., Inc., Bridgeport, Conn. Att: Purchasing Dept.

WANTED—NOSKE 2¼ POWER (OLD MODEL) Zeiss 1½ power. 270 reloading tool, 150 grain 45 automatic, National Match. Bob Mitchell, 478 12 Ave., San Francisco, Calif.

WANTED—WINCHESTER HIGHWALL RIFLES 25-20 S.S., .32-20 and .30-40, very good condition, King micrometer rear and reflector ramp front for short Woodsman with fixed front sight. All letters answered. Raymond Long, Lincoln Way, Dixon, Ill.

WANTED — SPRINGFIELD ACTION, B & M tools, .32-20, primers, powder, shells, 100 to 115 grain mold, Stith mount for Springfield-Alaskan. Have new Enfield with Bishop custom stock. S&W DA .45, holster, 4 sets clips, good. Lt. Phillip Walls, 285th Engineer C. Bn., Camp Crowder, Missouri.

WANTED TO BUY—45 AUTOMATIC OR REvolver. 45 riot shells, 25 automatic. Don Gowen, 322 Plant Ave., Tampa, Florida.

WANTED TO BUY—25 AND .45 AUTOMATICS. Trade Spencer microscope. Don Gowen, 322 Plant Ave., Tampa, Florida.

WANTED—LOCKS FOR GERMAN MAXIM MAchine guns; German machine gun '34; Railroad drawing pen; old model 37mm gun; 50 caliber machine gun barrels; barrel and action for 37mm gun; range finder; machine gun belts (U.S.); metal machine gun ammunition boxes, U. S. Mark A. Cooper, Lt. Col., Ga. State Guard, Rome, Ga.

WANTED—WINCHESTER M70, 30-06 OR 270, M70 Super 257, Winchester 52 Sporter latest, also 32-20 Remington pump, 18" Model 25 any grade. Describe and price. K. Green, No. Haverhill, N. H.

WANTED—M70 257, 270, M69 WINCHESTER, 22 L.R. ammunition, National Match Springfield, M70 action, 30-06 Pacific Dies. E. G. Brust, 518 No. 11th Ave., Melrose Park, Ill.

LARGE RIFLE PRIMERS, NMNC, 22 & 30 caliber jacketed bullets. Shotgun shells, hunting scopes, target scopes, neck die, 220 Swift for B&M tool. 22 caliber rifles, shotguns. Herman Treptow, Milltown, N. J.

WANTED—PERFECT OR FANCY GUNS AS follows, 20 gauge pump, 97 Winchester, 375 Magnum, .22 Walnut Hill, .22 Magnum, 2R, 250-3000, 32-20, 25-20, Sedgley 25-35, late Winchester 12 gauge automatic, Remington 30S, 300 Magnum, 45 Colt Automatic, Mauser and Krag actions, Winchester Hi-Wall. Ask for used list. C. E. Purdie, Gopher Shooters Supply, Faribault, Minn.

WANTED—MODEL 70 WINCHESTER RIFLES in Hornet, 250-3000, .257, .220 Swift and .300 H&H. Stevens 44½ center-fire and Winchester hi-side actions or complete rifles. Target scopes, powder measures and scales. Leslie Lindahl, Central City, Nebraska.

WANTED—MODEL 70, 300 MAGNUM AND empties or loaded ammunition. Roy E. Weatherby, 7672 California Ave., Huntington Park, Calif.

SMITH AND WESSON .357 MAGNUM WITH three and a half inch barrel or Police and Military Model 38 Special with two inch barrel. R. Hechrotte, Fishbourne Military School, Waynesboro, Va.

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AMMUNITION, 30-06, 37 AND 38, 8¢ EACH. Also 1918 bullets only, 1½¢ each. C. J. Ekenberg, 5251 Magnolia Ave., Chicago 40, Ill.

SWAP 140 ROUNDS .220 SWIFT MUSHROOM cartridges for soft points. Lt. Hunter, Navy, Melbourne, Fla.

GUNS WANTED—REVOLVERS, RIFLES, SHOTguns. State model, caliber, condition and best cash price first letter, no trades. The Jaymac Co., Jackson, Mich. tf

CUSTOM LOADED CARTRIDGES (NEW COMponents used, not reloads). 200 rounds 7 mm., 175 gr. S.P.; 40 rounds 9 mm., 280 gr. S.P.; 100 rounds 6 mm., 112 gr. S.P.; above loads 20¢ per round. 500 Hornet cases, fired once, $5.00; 106, 30-30 cases, fired once, $6.00. Money order please. J. L. Blalock, R. 2, Moscow, Idaho.

CATALOG JUST OBTAINED A COLLECTION OF 2000 Modern and Antique handguns, send coin 25¢ for your copy. Winchester cartridges 32 S.L. soft point $6.50 per hundred. Winchester 35 S.L. cartridges $6.50 per 100. 38 Rim Fire Winchester revolver cartridges, $2.00 per hundred. 38-56 soft point rifle cartridges, $10.00 per hundred. 30 Govt. 1903 soft point 220 grain, Western cartridges $10.00 per 100. 30-06 metal patch 172 grain late issue F.A. cartridges, $10.00 per 100. 30-06 metal point 1918 cartridges 30% split necks, all in firing condition, $4.50 per 100. 22 Remington Auto loading rifle cartridges $15.00 per 1000. 38 Automatic pistol cartridges $4.50 per 100. .405 Winchester Staynless $15.00 per 100. 7.65 Mauser rifle cartridges, Peters rustless $10.00 per 100. 45 Automatic pistol cartridges, $6.50 per 100. Public Sport Shops, R-69, 13 So. 16th St., Phila., Pa.

900 KLEANBORE 38 SUPER AUTOMATIC HISpeed cartridges, $5.25 per 100. 300—Peters 38 automatic, $4.50 per 100. Three bandoleers M1 30-06 1938 boattail, $5.00 per bandoleer. Charles Tropp, 406 North College, Paris, Tennessee.

CARTRIDGES FOR COLLECTORS, SINGLE specimen, some boxed lots. List, stamp. Ed Howe, Coppers Mills, Maine.

SEND THREE CENT STAMP FOR LATEST LIST of Modern and Obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf

TRADE—10 BOXES .270, 3 BOXES .357 MAGnum, some .22 Match, few boxes .300 H&H. A. L. Osborne, 1252 S. Main St., Elmira, N. Y.

.22 CALIBER AMMUNITION WANTED. WHAT are your needs? Thanking you. Adrien Grenier, North Grosvenordale, Conn.

30-06 M 1 CARTRIDGES 1933 LOADING, CLEAN and bright, under 500 rounds 7½ cents, 500 or over 7 cents. J. L. Vincent, Sporting Goods, Chamois, Mo.

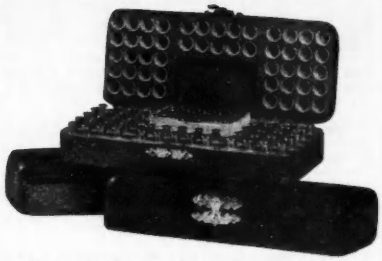
WANTED—SWIFT AMMUNITION AND COMponents. Will pay $2.50 per 100 for bullets, $1.00 per 100 for primers, and $2.50 per box of 20 factory shells. Billy E. Brown, 421 West Orange St., Mexico, Mo.

AMMUNITION, ALL TYPES WANTED. STATE condition, age and caliber. High prices paid. Make offer. Stoeger Arms Corporation, 507 Fifth Ave., New York, N. Y. tf

WANTED—.38 SPECIAL EMPTY CASES. SELL 30-06 cartridges 28 to 38 issue 7¢ each. J. B. Pitchford, 300 Delhi St., Bossier City, La.

SINGLE SPECIMEN PRICE LIST #405 OF CARtridge collectors items .20. 3 sheet list of rifle and revolver ammunition .20. Charles Shattuck, Cherry Creek, N. Y.

THE BADGER HANDYBOX



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WALNUT	$1.10
Sheepskin Shooting Mitt	$1.00
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Deluxe Shooting Mat	$9.95
Best Quality Sheepskin Gun Case	$6.50
Same in scope width	$8.50

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INSTANT "BLUE STEEL" GUN FINISH
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MAGIC COLD CHEMICAL
Restores finish on 5 Guns. No heating! Can't injure steel. Simple process. Takes minutes.
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New... $1.75 POSTPAID
OFFICIAL GAUGE

This 4-way gauge is a one-piece, rigid instrument that will score quickly and accurately bullet holes of .22, .32, .38 or .45 caliber.
Machined to exacting specifications and used as illustrated.

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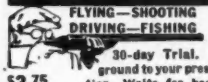

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16MM. KODAK, MOD. E, PERFECT, B&H lens, case, roll film, new Keystone projector, all, $100.00. Arnold Silva, 52 Tilton Ave., Kittery, Maine.

EXCELLENT M-70 HORNET, STITH MOUNTS, 440-C Weaver, 2 Lee Dots, 250 Winchester, 116 primers, 100 Remington cases, 100 lead bullets, 1 lb. 2400 No. 3 Ideal tools, scales, measure, blocks, gas check maker, etc. First M.O. for $160.00. Richard Timmons, King City, Mo.

WANT—MINIATURE SPEED GRAPHIC, ALSO miniature or folding type camera with F4.5 or faster lens. W. H. Gentry, 2080 East 5th Ave., Knoxville, Tenn.

TRADE—500 SHOT SHELLS, WESTERN SUPER trap loads with super seal crimp, 3-1⅛-8 Ch. Red Dot, for .220 Swift, .220 Arrow, or .22 Varminter in Winchester M70. Barrel immaterial. With good barrel pay cash difference. Lache Corlis, 1330 State St., Alton, Illinois.

WANTED—45 CAL. S&W 1917 REVOLVER. Commercial model preferred. Must be in excellent or better condition. Also want .45 auto ammo. Jerome Gilson, Box 304, Fredonia, Wisconsin.

COLT .38 SPECIAL OFFICIAL POLICE 6", VERY good plus, 200 hand loads, holster, $70.00, or trade for .270 or .257 like condition. Latest 2¾X Hensoldt Ziel Dialyt hunting scope with Lee Dot, new condition, $75.00. .45 Colt auto M1911, good, outside, barrel fair but accurate, honed action, new shoulder spring holster, 2 magazines 400 accurate reloads, $65.00. Money orders only. Chas. W. Walker, Box 385, Ellensburg, Wash.

WANTED—IDEAL SIZER, LUBRICATOR, DIES for 225438 bullet; .22 gas checks; Winchester high side rifles for conversion; Ideal tool for .32-20; Ideal mould for 225438. TRADE—I have few Long Rifles and No. 116 Primers. Chalmer Hill, R.R. 2, Bradford, Ohio.

WANTED—POPE AND ZISCHANG MOULDS, also Ideal moulds No. 319162, 319289 and 319201. Gerald Gross, Lathrop, Mo.

CAMERA WANTED, 35MM. CANDID, and 35MM. slide projector. Sell or trade Rodenstock, 127 candid camera, F.4.5, $22.00, 12 gauge shells, S. de Ranitz, Prairie du Chien, Wisconsin.

$1.00 GOVERNMENT LEATHER HOLSTERS FOR .45 Automatic pistols, second hand. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

WANTED—M70, .220, .270 COMPLETE, ALSO 720 Remington .270 barrel only. G. W. Fuller, 3064 Calif. St., Huntington Pk., California.

WINCHESTER 348 MODEL 71 SWIVEL, STRAPS, sheep lined case, 5 boxes ammunition, extra sight excellent. $85.00. W. A. Luce, 410 Hillview Place, Ithaca, N. Y.

HANDY GRINDER CRAFTSMAN WITH ACCESsories, $20.00. Johnson A-45 outboard motor 3hp. used, but good, $50.00 f.o.b. R. T. Roark, 2320 Frankfort, Louisville, Kentucky.

SELLING OUT, NO AMMUNITION SOLD SEParately. Winchester—Gebby S.S. Hornet, new 440 Weaver scope B mounts, pistol grip stock, inletted, checkered, and finished by Bishop, new, test fired only, $100.00. 1200 Mush. Kleanbore, sold only with gun, $48.00. Excellent .30-'06 Service Springfield, C stock, new 1941 barrel, 300 F. A. boat, $71.00. Very good .30-'06 Springfield Sporter, Lyman 17a—48j, scope blocks, 200 F.A. 38 boat, $64.00. Woodsman standard 4½" barrel, new Roper grips, trigger shoe, excellent, 2000 rounds ammunition, $66.00. Winchester Model 12, 16 gauge, 26" cylinder barrel, factory blued, and refinished, same as new gun, $50.00. Winchester Model 42, 410 gauge, 28" mod. barrel, 3" chamber, excellent, $40.00. Winchester .30-30, lever action, new barrel, ramp front, open rear, very good, $27.00. Heavy barrel Ranger, .22 caliber, VAVER front, VAVER ⅛ min. click rear, blocks, V.G., sights worth price alone, $25.00. B. & L. drawtube, O'Hare stand, excellent, $35.00. Japanese carbine, fair, $5.00. Belgian rifle, fair, $5.00. Remington S.S., breech loading, about .50 caliber, bayonet attached, Civil War gun, in very good condition, $15.00. E. D. Bench, 2248 Cumming Road, Augusta, Georgia.

GUNS, RELOADING TOOLS, AMMUNITION, bought, sold and traded. Stamp for list. F. Emerson, Box 54, Auburn, Mass.

$3.00 GOVERNMENT METAL PACK CARRIER frame for mule or horse, cost $20.00. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

66—.38 SUPER AUTO KLEANBORE, $3.90. 500 —.38 Auto Colt's smokeless, $2.55 box. 180—.38 Winchester Smokeless, $7.70. 33—.41 Colt's Short, $1.82. 26—.41 Colt's Long black, $1.28. 43—44 Gamegetter shot black, $2.35. 25—.38 R.F. black, $.90. 60—.32 S.&W. shot black, $1.80. 28—.38 S.&W. shot black, $1.40. 40—.32 Winchester Spec., some cracked necks, $2.00. Pair Army field telephones 600 yards wire, $25.00. H. Von Wahlde, 111 E. 9th, Anderson, Ind.

.38 COLT SUPER AUTOMATIC, NEW CONDITION, holster and extra clips, $85.00. .45 Colt Automatic, good, Franzite pearl grips, $60.00. .45 Colt Automatic, good, $55.00. .25, .32 & .380 Colt, Mauser, Savage, and Spanish Automatics, $20.00 to $30.00 each. .455 Webley, Mark VI, excellent, $50.00. .45 Colt SA Frontier fair to good appearance, good mechanically, Franzite ivory steerhead grips, $50.00. .32-20 Colt Bisley, good, $55.00. .38 Special S&W, good, $50.00. .38 Special Colt, fair to good, $30.00. .38 S&W top break, $17.50. .32 Iver Johnson top break, $12.50. Antique flintlock pistol, brass and silver bound, 19" over all. Fair to good, unusual and decorative, $35.00. Allen & Thurber Pepper box pistol, new condition, 6" multiple barrel, $27.50. For complete list of antique and modern guns, write Elliott Gillespie, 4816 South Aldrich Avenue, Minneapolis, (9) Minn.

MARLIN 39A, BEAUTIFULLY STOCKED BY Alvin Linden for left master eye, perfect except for several small scratches front sight zone, equipped Marble tang, folding rear, Watson 2 front sight, include factory stock, fore end, among last made, money order seventy-five. Wm. Sims Bunn, Nashville, N. C.

WANTED—SPRINGFIELD ACTION OR ONLY a receiver, Mauser action, Derringer, and few cartridges. Sell or swap—S&W DA17 ACP cartridges, 8 clips. Lt. Phill R. Walls, 285th Engineer C. Bn., Camp Crowder, Mo.

WANTED—SCALE OR BALANCE, POWDER measure, 8X or 10X Fecker eyepiece, .257 caliber jacketed bullets, Ideal No. 10 for .257 Roberts. Earle Adams, 14509 Alma, Detroit, (5) Michigan.

1903 SPRINGFIELD PARTS, TRIGGER GUARD, stripped, $3.15, floor plate, 70, follower, 90, magazine spring, 65, front sight, fixed base 45, upper band complete .45, lower band and swivel .40, lower band, no swivel .20; 1917 Enfield parts, trigger guard stripped, $2.25, floor plate .70, magazine spring, 65, lower band, no swivel .35, upper band, no swivel .40. Luger drum magazine, $5.00. Robert P. Wootton, 514 No. State St., Chicago, Illinois.

CUSTOM BUILT, 257 ROBERTS BY NIEDNER, new Enfield action, 25 inch Niedner barrel, checkered stock with ebony, 10½ pounds, blocks, 50 rounds, B-M bullet seater, powder, primers, bullets, test fired, perfect $150.00. Two Krag Sporters, peep sights, above average, 40 rounds sporting ammunition with each, $40.00 apiece. 88, Mauser, inside good, outside rough, ammunition, $15.00. Remington, 16 gauge Sportsman, full choke, case of shells, excellent, $130.00. M. T. Woodsman, sheepskin, hand honed excellent, $75.00. Model A Hi-Standard, excellent, 6¾ holster, carton L.R., $65.00. 38 Special S.W. Military, 100 rounds, excellent, $60.00. Will trade any of the above for large rifle primers. Arthur Hanson, 2715 Wood, Kansas City, Kansas.

CASED .455 WEBLEY, MVI, COMMERCIAL, Parker sole leather case, shells, excellent, $55.00. K-38, Magna grips, Heiser holster, belt, shells, perfect, $70.00. British .303 Lee-Enfield, as issued, shells, $35.00. Stevens 12 double, v.g., $18.00. French 20X scope, brass tubes, excellent, $15.00. Mossberg A stand, $8.00. 401 Magazine, 10 rounds, $4.00. 50 DWM 9mm. Mauser pistol cartridges, $4.00. Joseph Mishko, 153 Howard Avenue, Ansonia, Connecticut.

SUPER GRADE NEW MODEL 70, CALIBER .375 and ½ case shells (10 boxes) sheepskin case, $225.00. Mauser 98 Sporter, 8mm., barrel action excellent, stock poor, new recoil pad. Winchester 54 Hornet perfect with some shells, want larger caliber 54 or 70. Bert Brush, 31 Alderson, Billings, Mont.

MATCHED PAIR WOODS THREE STAR ARCtic Bags, can be snapped together to form double bed, size 90 x 90, perfect condition, used one trip to Yukon, sent to Sanitone Cleaners, $55.00 each. Winchester Model 21 trap grade, ventilated 30 full and modified, 12 gauge, Monte Carlo comb, pistol grip, beavertail forearm, Jostam pad, beautiful gun, death on long range ducks and pheasants, new last year, excellent to perfect, cost $227.00. Single selective trigger, automatic ejection, sell, $200.00. Half case Super Speeds 6ch., 7½ ch. if wanted. Will accept pigeon grade Browning over under same condition, or will buy the Browning. Ralph Davis, Coalinga, Calif.

CUSTOM LOADED CARTRIDGES, .32-20, 80 grain Hollow Point, for modern rifles only, .22 Hornet, 45 grain soft point, $8.50 per hundred, .25-20 repeater, 86 grain lead, .32-20, 115 grain lead, $7.50 per hundred, .44-40, for modern rifles only, 160 grain Hollow Point, $10.00 per hundred. All are non-corrosive, smokeless. Robert Haelig, Boundbrook, N. J.

$4.00 STEEL SAFE DEPOSIT BOX, 14 X 14 inches, double lock protection for valuable papers, jewelry, money. Mail orders filled. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

EASTMAN 8MM. MOVIE CAMERA, MODEL 60, f.1.9 lens, carrying case, f.4.5 telephoto lens, like new, $125.00. Bell & Howell 16mm. projector, with speaker, handles both sound on film and silent, used but good, $275.00. R. T. Roark, 2320 Frankfort, Louisville, Kentucky.

TRADE—500 SHOT SHELLS, WESTERN SUPER trap loads with super seal crimp, 3-1⅛-8 Ch. Red Dot. What have you? Lache Corlis, 1330 State St., Alton, Illinois.

WOODCHUCK RIFLE, TELESCOPE, S&W 32, field glass, camera, accessories. Prices on request. Holden, North St., Northampton, Mass.

WINCHESTER 70, .220 SWIFT, VERY GOOD, 100 loads, 300 bullets, 300 primers, $150.00. Winchester 70, 220 Swift, excellent, 4X Ranger scope, sling, 100 loads, 200 bullets, 200 primers, $165.00. Winchester 92, 25x20 perfect out, good in, oct. bbl., 50 loads, $37.50. Sav. 23, 25x20, very good, 50 loads, $32.50. Rem. 241, short, very good, 500 shells, $37.50. Rem. 24, short, very good, 500 shells, $32.50. Colt .32-20 P.P. Sp., very good, 6 in. bbl., 50 shells, $30.00. H&R 22 cal., 922, excellent, 250 shells, $25.00. Colt 1860, C&B shooting order, 100 caps, 50 balls, powder, $20.00. F. W. Caauwe, Norfolk, Nebr.

FOR SALE—S&W K 22, LIKE NEW, $75.00. S&W 38 Special target, like new, Heiser holster and box of shells, $65.00. S&W 38 Special 5" blue, excellent, box of shells, $55.00. S&W 38-44, 5" chrome plated, very good, two boxes shells $75.00. 38 Super Automatic, chrome plated, fancy grips, excellent, Heiser holster, extra clip and pouch, ten boxes ammunition, $100.00. 20 gauge Remington automatic, two barrels, one with Weaver Choke, very good, 5 boxes shells, $100.00. 45 automatic ammunition. F. A. 34 & 35 issue copper covered bullets in sealed boxes $5.00 per hundred. Wm. L. Moore, 1405 So. 5th. Ponca City, Okla.

WINCHESTER MODEL 12, 12-GAUGE PUMP gun, excellent, recoil pad, box shells, first $52.50 money order takes. G. E. Morr, High Street, Ashland, Ohio.

WANTED—SCHUETZEN RIFLE, 22 L.R. CALIber, International Swiss Martini action, 30 cal. bullets. S. J. Asher, 2223 Pebrican St., Cheyenne, Wyo.

WANTED—300 SAVAGE MODEL 99 (SOLID frame) prefer 99-H carbine. State condition and price. Also need 300 cartridges. Bielefield, New Knoxville, Ohio.

CUSTOM AND FACTORY LOADED AMMUNItion of all calibers. Write and enclose stamp for list of guns, ammo. etc. $5,000 collection, gun tools, F. Emerson, Box 54, Auburn, Mass.

50¢ GOVERNMENT ATMOSPHERE SLIDE rules, used, directions on rule, cost $10.00. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

WANTED—AMMUNITION, BULLET MOULD and reloading tool, and components for 45-70. Kenneth Larson, Grantsburg, Wis. Forestwood Lodge.

WINCHESTER MODEL 42, 410 GAUGE, PERfect, $40.00. Cutts compensator, skeet and modified, new, $20.00. F. E. Britton, Marlboro, N. H.

WANTED—FLINTLOCK, PERCUSSION, PISTols, cased, single pieces, swords, knives, antique guns, Indian relics. H. Lydick, Moundsville, West Va.

SAVAGE 19 HORNET, 438 SCOPE, DUST CAPS, oiled sling, 35 shells, fired 150 times, excellent, 125 empties, $60.00. 357 Magnum, 3½" bbl., 300 shells, 3 holsters, new condition, $125.00. Frank Gander, Court House, Sparta, Wis.

FOR SALE—WINCHESTER 52 SPORTER, 48F Lyman, excellent inside, good out, $97.00. 99 Savage 22 Hi-Power, 20 in. barrel, good inside and out. 4 boxes ammunition, $47.00. Max Martin, LaFontaine, Ind.

WANTED — NEW SPRINGFIELD .30-'06 AND M/1-.22 cal. barrels, Redfield Jr., Springfield-Weaver mount, 22 cal. jacketed bullets, 41 to 50 gr. W/o Edward J. Clark, P. O. Box 388, Osborn, Ohio. Life Member.

WINCHESTER 12 GAUGE RIFLED SLUGS (slugs only, not loaded shells), $3.00 per box of 25, postpaid anywhere in U. S. Robert Haelig, Boundbrook, N. J.

FOR SALE—30-'06 AT $6.00 PER 100, FRESH stock 1941. Adrien Grenier, North Grosvenor Dale, Conn.

COLT WOODSMAN 4½" EXCELLENT, HEISER holster, extra magazine, 500 Kleanbores $63.00. Colt 38 Official Police, new condition, holster 300 Kleanbores, $75.00. Another one blueing partly worn, pearl grips, holster 300 Kleanbores, $65.00. Hi-Standard Model B 4½" never fired, some outside rust spots, holster 500 kleanbores, $50.00. Smith 44 Special 6½" new condition, shells, holster $85.00. Pair Frontiers 44-40 7½" excellent, one with ivory grips, shells $125.00. Bisley 32-20 7½" excellent, holster, shells $60.00. Bisley 38-40 5¾" nickel finish, ivory grips, shells $55.00. Colt single action 45" Wells Fargo 5½" very good, holster ammunition $40.00, Colt 45 double action, Frontier, Alaskan model 6" very good ammunition $35.00. Smith 38 Special 6" excellent 300 kleanbores, holster $65.00. Smith 38 Special 4" late military model, extra pair stag grips, excellent 300 kleanbores, $60.00. Colt Police Positive 38 Special 4" very good, grips pearl, 300 kleanbores, $60.00. Colt 32 Police Positive 6" target sights very good, 200 kleanbores holster $45.00. Another one plain sights, holster 200 kleanbores, $40.00. Smith, straight line 10" excellent, holster 500 kleanbores, $45.00. Colt 380 Automatic, excellent, holster, box kleanbores, $45.00. Colt 32 Automatic, excellent, holster, box kleanbores, $43.00. Savage 32 Automatic new condition original factory box, ammunition, $40.00. Ortgies 32 caliber, Automatic, nickel finish very good, ammunition, $27.00. Davies 32 Automatic, "Infallible" pearl grips, very good, $30.00. Spanish revolver 32-40 4½" heavy frame, very good make, stag grips, $35.00. Colt 38 Police Positive 4" excellent stag or pearl grips, holster 200 kleanbores $45.00. Belgium 25 caliber revolver folding trigger shoots Automatic cartridges, nickel finish, pearl grips, very good, $25.00. Baby Hammerless top break 22 caliber excellent, box shorts, $18.00. Walter Model 9, 25 caliber new condition, holster, shells, $35.00. Smith top break 38 caliber 3¼" safety grip, nickel finish, very good, holster 100 kleanbores, $28.00. Smith single action 32 caliber 2¾", nickel, excellent, 50 rounds $15.00. Money return guaranteed within five days. No C.O.D. Morton's, 40 Fulton St., New York City.

.218 BEE FACTORY LOADED AMMUNITION, 200 rounds. R. L. Kapsa, Lt. Col., F.A., H.N.S.C., Fort Douglas, Utah.

WANTED—30-06 RIFLE, ENFIELD, MODEL 70, Model 54, or Springfield over 800,000. Action and barrel must be very good or better. Sights and stock immaterial. Joe Maxwell, Tillamook, Ore.

WANTED—BY MARINE—AIR PISTOL TO shoot rats. Must shoot slugs 22 caliber. Write Louis Hill, 1st Nat'l Bldg., St. Paul, Minn.

ITHACA FIELD SUPER 10-32, M/F, VERY good, 497 H.V. shells, $120.00. Frank Dotterweich, 8 South Lane, North Tonawanda, N. Y.

WANT—70-257 WITH AMMUNITION AND REDfield Junior mounts also either 28 gauge or 410, must be excellent or better; have cash or trades in—American Browning Automatic 20-28" Poly Choked with lined case; Fox Sterlingworth 20-28" Selective ejection and trigger, both perfect; unfired Sear's Ranger 12-30" Poly Choked, leather case; 200, 38 Automatic; 100, 270S 130 grain Silver-Tip; 1000, 22 Specials; 40, 30-30 and 30 rimless. No deals before sixteenth. Russell H. Morrison, Life Member, 1447 East 66th Place, Chicago 37, Ill.

COLT 32 CALIBER HEAVY BARREL, OFFICER Model, cockeye hammer, short action, King click adjusted rib section rear sight, King ramp reflector under cut front sight, trigger work by Berdon, custom grips, also Colt 38 caliber, description same as above, $100.00 each. Mossberg Model A spotting scope without stand, $30.00, Winchester M-12, pump, 16 gauge 20 slugs, 2 boxes shells, never fired, $125.00, Winchester 25-20, M 92 good to very good, $50.00. S&W .357 Magnum 8¾" barrel, King ramp reflector sight, fired less than 25 times, 3 boxes shells, full length sheep-lined holster, Heiser belt holster, $135.00. Ithaca double barreled 12 gauge, 2 boxes shells, $55.00. Colt 45 Automatic adjustable rear sight, ramp front, $75.00. Colt 45 Automatic, Service Model, $50.00. Gordon Doell, Attica, N. Y.

WANTED—MODEL 70 WINCHESTER .270 CALiber, prefer with loading accessories, 6 x 30 Zeiss Silvarem binoculars, Model 42 Winchester 410 with ammunition, excellent or perfect. W. Martin, 3379 Santa Ana Street, Huntington Park, California.

WINCHESTER 52 BULL GUN, FLAT TOP REceiver, no iron sights, with one thousand EZXS or Mark II Match. Rifle is brand new, never fired, $110.00. Winchester 52 standard barrel, flat top receiver, no iron sights, new, in original box, with one thousand fresh Long Rifle cartridges, $85.00. All rifles latest models. Marble-Goss rear sights, with rifles only, $12.00. Winchester 75 Target, with standard sights, excellent, with one thousand fresh Long Rifle cartridges, $65.00. Same but appearance good, otherwise perfect, same ammunition, $60.00. Winchester 62, with 500 Long Rifles, perfect, $37.00. Savage 23AA, Parker Skyline front, tang rear, excellent, with 500 Long Rifles, $42.50. National Match Springfield, .30-'06, unfired, straight grip, issue sights, serial number above one million, $100.00. Robert Haelig, Boundbrook, N. J.

SELL OR TRADE—IDEAL 38 SPECIAL TOOL, mould attached, $7.00. Ideal mould blocks No. 358395, $6.00. B&I mould No. 311170, $5.00. 30-06 Springfield barrel, good, $3.00. M-3-29 Weaver scope, fair, $3.00. 29S Weaver and mount, $15.00. Want—45 caliber Pacific dies, mould, primers. Ideal blocks No. 358425 and 22 caliber target revolver. Spates Roblyer, Cresap Park, Cumberland, Md.

EXCELLENT 330 AND CASH FOR TARGET scope. Excellent Savage 219 Hornet, 100 factory loads, $25.00. Excellent Winchester 37, 20 ga. $15.00. Delbert Wells, Salem, Ind.

52, VERY GOOD; A-5 FACTORY RECONDITioned; new service .44-40, perfect, with Ideal tool, factory loads, powder, primers, etc. $112.50 takes all. W. L. Harrison, Berlin, Wis.

TRADE—EXCELLENT NEW MODEL .30 LUGER for excellent match target Woodsman; 250 rounds .25 Automatic, poor, for 250 long rifle. Wanted—Good to poor Woodsman; .22 and .32 revolver. Bill Dudley, Elizabeth City. N. Car.

WEAVER 330S X-HAIR SCOPES IN STOCK, new, $29.70, T mounts, $2.20. B mounts, $6.60. Stith mounts, $12.00. S. A. Wentling, Palmyra, Pa.

PERFECT—SAVAGE 99EG 250-3000, WEAVER 330S 50 cartridges, $115.00. Excellent, Savage 23D Hornet, Fecker 4X, 150 factory cartridges, $95.00. Good—Colt New Service .44, 50 cartridges, $42.50. Poor—1876 40-60, box shells, $9.00. Ernest Juola, Eveleth, Minn.

CHE GRADE PARKER 12 GAUGE DOUBLE, solid rib, full and modified, selective single rigger, 34" barrels. Built-in cheekpiece. Excellent, $300.00. L. A. Pope, 532 Oakford Drive, Los Angeles 22, Calif.

FOR RENT, TRADE, MOULDS, FULL LENGTH dies, Ideal lubricator dies, cast bullets, cases, 30 caliber G.C. for others. Stamp appreciated. Helmer Romness, Zumbrota, Minn.

NEW PP 38 SPECIAL, 6", $65.00; NEW I.J. Supershot 6" and 2½", $35.00; S&W 32L, $30.00; 22-32, $45.00. Want—12 gauge automatic, shells; 351 Winchester; S&W 38 Special; Magnum; 9 mm. Luger. Leslie Vanatta, Covington, Ohio.

SPRINGFIELD '06 #985017, AS ISSUED, EXcellent including Bandolier cartridges, bayonet, scabbard sling, #10 Ideal tool, 100 lead bullets, 100 mixed, 100 empty cases, 100 primers $100.00. Another #874693 as issued, 300 rounds in clips $75.00. Another 22 caliber model 1903, loads with auxiliary cartridge, shorts only, excellent, sling, 200 shorts, 10 auxiliaries $65.00. Mauser 98 original, 8 mm. as issued, cleaning rod, bayonet, scabbard all in excellent condition, box cartridges $45.00. Enfield 303 mark III as issued, part of hand guard missing, bore excellent, sling, 40 cartridges, $40.00. Savage 99, 303 very good, 3 boxes cartridges, $47.00. Winchester 86, 45-70 box cartridges, blueing off otherwise very good, $40.00. Winchester 98, 38-55 very good, 40 cartridges $38.50. German "drilling" 3 barrel gun, 16 gauge and 9. 3x72 rifle cartridge, Greener Gross Bolt action, Krupps barrels, 26½" excellent, sling, case, 2 boxes shells, 2 boxes cartridges, $175.00. Grayfeld over&under 12 gauge, trap 32", Krupp barrels, excellent, fine leather case, box shells, $200.00. Ithaca #4 trap gun, engraved, recoil pad, excellent $75.00. Remington Model 11, 20 gauge, automatic shotgun 28" full choke, 2 boxes shells, case $70.00. Ithaca 10 gauge Magnum 30" 12 pound, very good plus 2 boxes regular shells, case $50.00. Fine Percussion target rifle 30" set triggers, tiger maple half stock, beautiful inlaid design, fine lock, marked on barrel Phillips N.Y. weight 12 pounds $40.00. Beretta carbine 6.5 Italian carbine 36" overall, marked 1936-XIV from this war $45.00. Remington Matchmaster with 29S Weaver scope, sling, checkered grip and stock, excellent or better 500 kleanbore $75.00. 38 Special cases fired ones, brass, 60¢ per hundred, nickel 85¢. Money return guaranteed within five days. No C.O.D. Morton's, 40 Fulton St., New York City.

WINCHESTER MODEL 71 .348, EXCELLENT, 100 shells, case, $100.00. Remington Model 141, .35 excellent, 20 shells, case, $85.00. Remington Model 25, 25-20 very good, 50 shells, $35.00. Remington Model 24, 22LR auto, good, 100 shells, $35.00. Ranger heavy target .22 micrometer and 4X scope, accurate, good, $35.00. Winchester Model 12, 16-26" rib good, 50 shells, $65.00. Wesern Field De-Luxe Model 60, 12-30", excellent, case, recoil pad, $50.00. Stevens Model .22 410 O&U, excellent, 100 LR, $25.00. Money orders. Want—Match Target Woodsman. Harry Turgasen, Member, Richland Center, Wis.

WANTED—NEW OR EXCELLENT, WINCHESter standard 52 barrel. T. R. Conrad, Indiana, Pa.

2.8 BEE WINCHESTER 65 WITH NOSKE SCOPE mounted by Stith. Winchester QD swivels & sling. 245 cartridges. All new except scope is excellent, $150.00. Harry Hine, Eureka, Calif.

S&W 22-32 EMBEDDED HEAD CYLINDER, EXcellent, $45.00. Harry Hine, Eureka, Calif.

J. N. SCOTT DOUBLE 10 GAUGE, RUSTY, tight action, grip crudely patched, 100 primed brass empties for same, $15.00. 44 H&R single, rusty, but tight, $7.00. Winchester 1906 22 poor $5.00. Some 45-70 empties & bullets. Hi-Standard Model B very good, holster, 200 L.R. $45.00. Rifleman 31-43 inclusive, April 41 missing, $20.00. Back odd issues 1925 to 1943, 25¢ each. All above f.o.b. Valier. Want—330 center Dot, consider trade on good 6x30 or 7x35 binoculars. Alex Strandwold, Valier, Mont.

AMMUNITION 32 REMINGTON, .30-03, 6 MM. Navy, 9 mm. Mauser, .35 Winchester, 405 Winchester, 35 Newton, 32SL Winchester, 35SL Winchester, 32 Colt NP, 32S&WL, 7.63 Mauser. Redfield Jr. 330-70, 2 boxes, Redfield 70 RH; 45-70 Marlin top ejector; 45 & Luger magazines. Want 40-90SS cases or trade 40-90SS Winchester, #3 barrel, for same in 45-70, 405, 30-40, or Sharps Borchardt; 250-3000 bullets or cartridges, 25-35SP, 270 SP, 46 Grain SP Hornet bullets, 22 LR, primers, spotting scope. Dr. W. T. Williamson, Salmon, Idaho.

HEAVY M70 VARMINTER, SCOPE BLOCKS, Marksman stock, loading components, recently fired five consecutive 5-shot, 200 yards, groups averaging 1½". Stamp for details. Life member. Bernard Simpson, 105 Arlington Ave., Charleston, W. Va.

PERFECT 4½" WOODSMAN, $50.00. 70 WINchester .220 Swift, Zeiss scope, ammunition, $200.00. Ralph Garber, Cando, N. Dak.

SELL—SMITH & WESSON 38-44, INSIDE PERfect, outside good, some holster wear, steer-hide holster, 100 shells, $80.00. Hensoldt 8x24 Artillarie binoculars, optically perfect, case, $95.00. 6mm. Lee Navy rifle, shooting condition, 25 shells, $25.00. Rolls Razor, excellent, $9.00. Money orders. Kenneth Lorge, Bowman, N. Dak.

WINCHESTER 52 SPORTER, KING'S PATRIDGE and Lyman 48F sights with Iris disc. Zielklein scope internal adjustments for windage and elevation. Tilden mounts. Sling. Perfect except bluing wear on trigger guard and scope ends from lens cap, extra magazine, 10 boxes Hi-speed cartridges. $250.00. Zeiss 8 x 30 central focusing binoculars and case, mechanically, optically perfect, $175.00. Perfect .300 Savage Model 99G rifle, 46 factory cartridges, 16 empties, case, $100.00. Perfect Woodsman sport model pistol, extra magazine, sheep case, 10 box Hi-speed shells, $75.00. Mossberg spotting scope and stand, excellent to perfect, $30.00. New Weaver 440S scope, Lee Dot, Tilden rings, $48.00. Louis Lutfy, 903 Professional Bldg., Phoenix, Ariz.

WANT—WINCHESTER 52 STANDARD BARREL Speedlock. FOR SALE—75 Remington, 150 grain, bronze point .30-'06 bulets, 3½ cents each. 200 Western 150 grain, O.P. .30-30 bullets, Mike. 307 2½ cents each. Sidney Frye, Capron, Ill.

WILL PAY GOOD CASH PRICE FOR EXCELlent Remington .36 Cap & Ball. Will pay cash for .28-30 cartridges or empty shells, or will trade items offered in other ads. Robert Haelig, Boundbrook, N. J.

FOR SALE—1.22 SHORT WINCHESTER MODEL 90, poor appearance with new barrel, working order and 500 shorts, $25.00. Also 85, 30-30 cartridges, 8¢ each express collect. Examination allowed. Frank A. Flaugher, Quinter, Kans.

BINOCULARS, HENSOLDT MOUNTAIN DIAlyt 10 x 50, just adjusted, very good, $160.00. Skates, tubular hockey, sizes 7 and 10, very good, $5.00 each. V. B. Erickson, 1225 Byron St., Palo Alto, Calif.

.351 WINCHESTER, EXCELLENT, 100 KLEANbore cartridges, extra 10 shot magazine, $87.00. Roper Thumb Rest Stocks for S&W M&P, $8.00. Custom built 4 gun pistol case, form fitting moulds, trays interchangeable for 12 different guns, space for spotting scope and all accessories, excellent, $28.00. Russell Elder, Griffin, Ga.

ODDS AND ENDS, MOSTLY .45-70. ALSO Mexican silver inlaid spurs, complete details for stamp. E. D. Adams, 6310 Clayton Rd., St. Louis, Mo.

TRADE ONLY—600, 6½ NMNC PRIMERS; 500 .22 Long Rifle; 400 .22 Shorts. WANT—40 to 50 grain .22 SP Lovell bullets; new .25-20 SS or Lovell cases. Boyd Taylor, 24 West 4th St., Newport, Ky.

COLT .22 OFFICIAL POLICE, RECESSED CYLinder, ⅛" Patridge sights, perfect, shot less than 300 rounds, $60.00. No C.O.D. Clyde Winfield, 598 Madison, New York City.

WANTED—200 WM-8S 50 GRAIN BULLETS; 200 WM-8S .45 grain bullets; 200 P.P. Winchester .48 grain bullets, size .224. E. T. Laws, Milan, Ind.

WANTED—COMPLETE ACTIONS, WINCHESter, 52, 54, & 70, also Mauser and Springfield, also Want—Colt Ace Model, Colt Single Action Army Model good or poor. O. H. Harms, 615 - 8th Ave., South, Nampa, Idaho.

38 OFFICIAL POLICE, 4 INCH KING SIGHTS, holster, excellent, $60.00. 38 Officers' Model, 6 inch Target, excellent, $70.00. 38 Official Police, 2 inch, holster, ammunition, excellent, $60.00. Wanter A or D Hi-Standard. Mitchell Snider, Belpre, Ohio.

TRADE—1-SP PRIMERS FOR 100 SR PRIMERS. 200 LR primers for 200 SR primers. 1000 Long Rifle Kleanbore for 1000 SR primers will divide, 500 Long Rifles for 300, 35-40 gr. .224 bullets. Want B&M or Ideal measure Jr. Targetspot. Harvey Worthington, Glen Mills, Pa.

REMINGTON MODEL 121SB 22 LONG RIFLE smooth bore, excellent with 5000 Winchester Super-Speed long range 22 long rifle shot cartridges, $105.00. More ammunition, clay birds and trap available. Wm. Mansfield, 7617 Gannon, University City, Missouri.

WANTED—ENFIELD OR SPRINGFIELD .30-'06, good condition. Large and small rifle primers. Floyd Trail, 6908 Glenmore, St. Louis, Mo.

220 SWIFT, STANDARD, 440 WEAVER, REDfield Jr. Mount, $150.00. 30-'06 Mauser Sporter, restocked, cheekrest, $100.00. 52 Standard, Marble-Goss rear, 17A front, $80.00. 10x35 binoculars. Andrew J. Lloyd Co., good condition, no case, $65.00 All guns in new condition. Swift has sight notch covered box of shells with each. N. Handy, 329 Mass. Ave., Boston, Mass.

TRADE—NEW CRIMP TRAP LOADS—7½-8, any make for 220 Swift ammunition, large or small non-mercuric rifle primers—40 to 50 grain Sisk or Wotkyns-Morse bullets. Tell La Follette, Box 444, Charleston 22, W. Va.

WINCHESTER 54 VARMINTER, BUHMILLER barrel, 330 with Litchert & Lee Dot, Tilden mount, fancy stock, 1200 jacketed bullets, 7 boxes ammunition, 300 primers, as new $195.00. Winchester 70 Standard Swift, 330 Weaver, new factory barrel, 200 rounds ammo, fancy stock, sling, trigger shoe, $150.00. Enfield 300 Magnum, new 440 scope, fired 20 times, 3 boxes soft point, $115.00. Walnut Hill Savage barrel Hornet, Ideal tool, 200 jacketed, 300 gas checks, 200 primers, $55.00. Member, W. M. Smith, 709 Wallace St., Clovis, New Mexico.

KENTUCKY MUZZLE LOADING RIFLES, SHOTguns and pistols. Rifles by famous makers, Demick, Gemmer, Lehman and Golcher. Large selection. Lists 25¢ guaranteed. Geo. Brullesauer, 3957A Castleman 10, St. Louis, Mo.

SHOTGUNS, RIFLES, AND PISTOLS. REMINGton Sportsman, 20-gauge, $85.00. Model 12, 16 Winchester $75.00. Krag Sporter $65.00. Remington 22 automatic, $32.50. Colt 38 Special Official Police, $75.00. Woodsman $75.00. Many others. Ammunition for all. Lists 20¢. Geo. Brullesauer, 3957A Castleman 10, St. Louis, Mo.

TRADE—EXCELLENT STANDARD 52 WINchester, target stock, 48 rear, 17 A front, B&L drawtube, spotting scope, Freeland stand for excellent 70 Target Model Hornet or above 52 rifle for Standard Hornet. 22 L.R. for Hornet ammo. Raymond Gelineau, Beecher Falls, Vt.

VERY GOOD 54, 30-'06, 48 SIGHT. AMMUNITION, $80.00. Very good Remington 24A, long rifle, 438 Lyman scope, $50.00. Good reblued .45 autos commercial, $60.00. Govt., $50.00. Ammunition, 111 primers, $12.00 thousand. 110 grain H P 30-'06, 10¢ each; 10 shot magazine for W-52. $1.50. Frank J. Gerlich, 386 Blackhawk Rd., Riverside, Illinois

SELL—OR TRADE—REMINGTON 37, REDfield Front, Remington rear, inside barrel perfect, outside blue worn, used as salesman sample. Unusually beautiful custom stock with synthetic Ivory Tips. Factory test targets average 1" $90.00 or good high grade double with single trigger and electors. 15 boxes 30 Remington Mushroom, 3 boxes 32 Remington S.P. Exchange for shotgun shells. Guy Stancil, Gainesville, Ga.

MATCH TARGET WOODSMAN, EXCELLENT, sheepskin holster, extra clip, cleaning rod, 150 L.R. $75.00. Trade—6½" Woodsman (High Speed), good, sheepskin holster, extra clip, Sanderson grips, for .22-.45 conversion unit in good condition. Bogdonoff, 317 Lee, Hampton, Virginia.

TRADE ONLY: 30-30, .303, .270, 25-20, .30 REmington, .32 Remington, .25 Remington, 30-06 factory. Want—.250-3000 ammunition. Will Sell .30 Remington, .32 Remington, .35 Winchester @ $2.50 box. All new. H. V. Clark, 1324 W. 10th Street, Marion, Indiana.

VERY GOOD BENDEX ELECTRIC OUTBOARD, $30.00, Monocular, 8X, new, $10.00. Walter Finch, Albion, Washington.

FOR SALE—30-06 HOFFMAN MAUSER, 28" heavy barrel, perfect, sheepskin cover, 100 rounds, $125.00. 30-06 Remington 30 express, very good, Redfield micrometer rear, Whelen sling, 60 Silver-Tips, $75.00. J. G. Bueters, Glen Alpine Road, Morristown, N. J.

HI-STANDARD MODEL D THUMBREST GRIPS, very good, 1000 cartridges, $60.00, Remington Automatic 12 gauge, very good, 22 inch barrel, right length for Poly Choke, $50.00. E. Duncan, Essex, Conn.

TWO WINCHESTERS 12-12-30 FULL, $55.00 each, two Marlins 19-12-30 full, $25.00 each, one Syracuse double hammerless, $10.00. One Springfield Sporter, 45-70 with cartridges, $17.00. One Winchester 90-22 WRF, $35.00. Want: 35 Remington, or 30-06 rifle and 16 gauge repeater also 22 revolver. Andrew Kenney, 7913 Inglenook Place, Pittsburgh, 21, Pa.

TRADE—SET OF SERVICE BUZZERS, SIGNAL corps U.S.A. Model 1914, Buzzer and phone type, perfect, for Colt Automatics .45 and .380 or What? Walter Nutile, 7 Hooker St., Allston, Mass.

70-06, 330 WEAVER WITH STITH MOUNTS, EXcellent, $120.00. 52 with 48J, case good, $55.00. 30-06 ammunition. Glenn Henderson, Wellington, Kansas.

WANTED—28 GAUGE SHOTGUN; 22-410 OVERunder; Colt M.T. Woodsman; Hornet and 410 cartridges, cash or trade. Bob Payne, Utica Road, Utica, N. Y.

SALE—ZEISS ZEILMULTI 1X TO 4X WITH Redfield Senior mounts, excellent in and out, $120.00. Want—Oberndorff Mauser action, engraved Farquharson or target scope. Chris Buehler, 714 Murdock Rd., Baltimore, 12, Maryland.

WANTED—MODEL 70 WINCHESTER, SUPER grade, 30-06 or 257 Roberts, excellent or perfect, Please state detailed description and price in first letter. Lewis S. Parody, S1103 Wall Street, Spokane, Washington, Life Member.

30-30 WINCHESTER 94-26" OCT. PERFECT, 40 shells, $55.00. Ithaca 1½-26" skeet, Beavertail straight grip, good, $50.00. Colt Official Police, 22-6" perfect, $60.00. Want—Savage 99-30-30, perfect. Fred Kautzmann, North Bridge St., Somerville, N. J.

SAVAGE M19 K-HORNET, WEAVER 29S B-Mounts, excellent in, very good out, Pacific dies, 100 reloads, 150 empties, 500 bullets, 500 primers, $77.00. Sweany tool complete for .220, 200 bullets, 200 primers, 50 cases, $16.50. Swift heavy barrel, excellent, $12.50. Lowell Wood, Route #4, Idaho Falls, Idaho.

WANTED—MAUSER 98 ACTION FIRST CLASS shape, also 30-06 hunting ammunition. Frank Jones, 60 Wall Street, Bristol, Tennessee.

SHARPS HEAVY BUFFALO RIFLE, OCTAGON barrel, side hammer, set triggers, caliber 45-100, good $50.00. Harpers Ferry breech loading flintlock military rifle, unfired, perfect, $50.00. Wm. Rolston, 1987 Buena Vista Avenue, Detroit, Michigan.

FOR SALE—CHILLED SHOT, NOS. 1 TO 10 INC. 5 lb. bag, $1.00; 25 lb. bag, $4.50. Shotshell wads, 10 ga. ¼", $4.30M; ⅜" $7.10; all other gauges ¼", $3.65M; ⅜", $6.60M; over-powder and overshot wads, 10 gauge $1.25M; all other gauges, $1.20M. DuPont bulk and MX shotgun powders, $1.00 per 8 oz. can. Belding & Mull, Philipsburg, Penna.

WANTED—HIGH-GRADE MODERN 10 GAUGE please describe. Will trade Ithaca 12 gauge Model 4E with ventilated rib, SS trigger and B.T. forearm. W. F. Carver, 6114 Franklin Avenue, Hollywood, Calif.

WANTED 100, 32 S&W CARTRIDGES, FRESH, 100, 45 S&W Schofield Model, 22 S&W Ladysmith, excellent Colt, 38 Detective Special, excellent, Colt or S&W 22 target Model, perfect, Slide for Fiala S.S. carbine-pistol, Two 41 Remington double Derringers, S&W Volcanic pistol, Bulk, smokeless shotgun powder, mould or mould blocks, 41 long Colt, 2 boxes 25 Remington. Colonel P. E. Shanahan, HQ. ASC, Patterson Field, Fairfield, Ohio.

EXCHANGE ONE BOX 270, FOUR 30-30, TWO 25-35, one 38 Special and others, for 257 Roberts. Ben Newman, Agency, Iowa.

WANTED—BULLET SIZER & LUBRICATOR FOR 38 Special Star preferred. Wadcutter moulds for 38 Special & 45 automatic. Set of 45 automatic dies for Pacific tool. Pacific powder measure and scales. Potter electric furnace. Small revolver N.M.N.C. primers. Colt Shooting Master 45 automatic caliber. Model 52 heavy barrel. 8-12 power riflescope. Write complete details and price. Wm. Hubert, R 11, Penn Road, Toledo 7, Ohio.

UNERTL 2", 15X WITH SUNSHADE EXTENsion, $135.00. Litschert 6X, Malcolm mounts, $65.00. Trade 1000, 116 primers for 1000, 120's. S. F. Colladay, 1331 "G" St., N. W., Washington, D. C.

KRAG, 24" BARREL WITH 40 ROUNDS HUNTing and 60 rounds F.A. ammunition. 300 rounds 1938 F.A.N.M., 19 30-30 Hi-speed. Details on request. A. V. Schweidler, Culver, Indiana.

WINCHESTER 1895, 30-30 CARBINE SHOT 20 times, 7 boxes, $75.00. Lyman receiver, $3.75. Marlin 1892, 32-40 carbine, very good, 50 cartridges, $35.00. Stevens-Springfield 410 Repeater, new, 50 Super-speeds, $25.00. 25, 9 mm. Mauser, $3.50, 20, 7mm. $3.50. 40, 300 Magnum, $6.00. Brand new Weaver 29S, T mount, $15.00. B. $6.50. Bronze Elk. Eli Harvey, $40.00. Leopard Head, $10.00. S. Gerhardt, Malcolm Road, Jamaica Plain, Mass.

WANT—PERFECT 1926 SMITH AND WESSON target revolver. Large primers. 30 caliber bullets. Swap. Winchester 64, 32 Special, excellent 95 cartridges, 30 caliber Luger Weaver 330, new. James Landon, Box 6425, Pittsburgh, Penna.

DUPONT POWDER, OVERSTOCKED ON THE following numbers: 4350, 4320, 4227, 4198, 4064. Six pounds, $10.00. Ten pounds, $16.00. One kind nr assorted. #4759, six cans $6.00. Federal explosives license must accompany order. (3031 not available at present.) Robert Haelig, Boundbrook, N. J.

MAUSER 98 ACTIONS, FIRING PINS BROKEN otherwise O.K. (not blued), $20.00. Fitted with new 30-06 Enfield barrel, properly headspaced and chambered for this caliber, firing pin properly repaired, magazine altered, muzzle crowned, any length barrel 18" to 25", blued, bolt handle turned down, no sights or stock, $50.00. Will supply, install, and properly headspace new Winchester Enfield barrel in your 1917 Enfield Action (Remington, Winchester, or Eddystone), for one-thousand Remington or Western #8½, or Winchester #115 primers, must be NMNC. I have no facilities for doing any other work, no sights available for any of these jobs. Robert Haelig, Boundbrook, N. J.

30-06 NEWTON, SET TRIGGER ACTION, NIEDner barrel, 8#, excellent $115.00. 52 Winchester, Standard Barrel, A, action, 48J, Redfield, excellent, very accurate, 1000 L.R. $80.00. 30-30 Winchester 94, full magazine 2 boxes cartridges, good $39.00. Ranger .22 L.R., target, excellent, 500 cartridges, $38.00. Want: Target scope, 22 bore Varmint rifle. 20 ga. Model 21, Winchester. Sam Bond, New Philadelphia, Ohio.

MANNLICHER-SCHOENAUER 6.5 CARBINE, custom stock, swinging peep sight, sling, butt trap, 10 boxes cartridges, very good to excellent, beautiful rifle, $185.00. R. P. Hobson, York Village, Maine.

.30 REMINGTON AUTOMATIC, EXCELLENT condition, Lyman rear peep and seven boxes of cartridges, $78.00. Stanley R. Sprague, Route #2, Reeds Ferry, N. H.

30-06 CUSTOM BUILT MAUSER SPORTER, Bishop stock, open sights, excellent, $75.00. 40 factory hunting cartridges, with gun $4.00. 38 caliber genuine S&W break-apart 3¼" fair, with 25 cartridges $15.00. Same in 38 H&R, $10.00. Same in 32 long H&R, $10.00. Fred Kranz, Sauk Centre, Minn.

WANTED—10 GAUGE MAGNUM SHOTGUN and shells. S. W. Vandehei, 1199 Washington Blvd., Ogden, Utah.

3X LYMAN STAG SCOPE. TWO ENGLISH Springer Spaniel Champions at stud. Want: S&W Magnum, K22, Springfield Sporter, W70-06. Air pistol, Krag carbine, detective special, 45 automatic. Almon Williams, Berea, Ohio.

SELL-TRADE—WEAVER 330 LEE DOT, STITH mount for M70, $45.00. Take receiver rear as part payment. Earl F. Dean, Galeton, Pennsylvania.

WANTED — POTTER LEAD TESTER, 44 moulds, S&W target 44 Special excellent, Rifleman before 1927. Lawrence Newton, Auburn, Mass.

30-06 STOEGER MAUSER, 2½ HENSOLDT Mauser mounted scope with cartridges. $245.00. Trades considered; Krag as issued with cartridges, $45.00; excellent .44 Henry, $35.00; Evinrude motor, unused, factory box; 30-06 as issued with cartridges. Stamp brings list of ammunition, saddles, ships lanterns, guns, swords, war relics. Kingdon W. Brown, 884 Second Avenue, New York City.

S&W 38MP, NEW $55.00, DCM SPORTER, EXcellent, $80.00, heavy 52, vavers 35-751 excellent, $80.00. Springfield N.M. "C" excellent, $65.00, Enfield issue, new $45.00, Enfield issue new, Pacific $50.00, Enfield Sporter, Good, $40.00, Bullguns, beavertail, custom, excellent plus, 30-06 28x1¼x1, $85.00, 250-3000, 24x1¼x15/16, $80.00, Varminter 28x1-3/16x7/8, $85.00, Varminter 27½x1-3/16x1, new $95.00. .30 Chrome-Moly blank 31x1¼, $27.50, Argus 55mm. prismatic, case, stand, as new, $75.00, Delta ball bearing drill press ½"-60, Jacobs excellent plus, $55.00, ammunition, etc., purchasers only, reasonable. No checks. Curtis Jahnke, 245 West Russell, Barrington, Ill.

ALL FACTORY LOADS, .270, 30-30; .300 SAVAGE .32 Special; .401 Winchester; .30-06; .257 45 auto; .380 Automatic; .30 Remington; .303 Savage as new, 120 bass Italian accordion, cash; new, Firestone push button car radio, dash for '40 Plymouth. Accept 7.65 mm. Luger (prewar) and ammunition in trade on above ammunition and radio. Details on request. R. Thorkildsen, R.F.D. Nashota, Wis.

From a painting by William Harnden Foster

SPORT'S PEERLESS PRIDE

National Field Trial Champion, 1939—the first setter to have won this championship since 1930. He also held the titles of "National Amateur Quail Champion" and "National Amateur Pheasant Champion." Owned by Louis M. Bobbitt, of Winston-Salem, North Carolina.

The sport of hunting and the sport of raising fine hunting dogs have grown up together.

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One way in which you can help maintain this balanced game supply—and thus assure continued good hunting—is by joining your local sportsmen's club or one of the numerous game restoration and conservation organizations. They are doing a fine job which every sportsman should appreciate. E. I. du Pont de Nemours & Co. (Inc.), Wilmington, Del.

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Life began at ten for Bill, strutting out with his first Winchester and a pocketful of Western Super-X long range .22's! Sure those two big leaping jackrabbits caught him "flat-footed", but it didn't matter! He'd do better next time—and he did.

Today, instead of shooting for fun, Bill is shooting for Freedom—and doing a great job of it. Out on the training ranges, and in the front lines getting the range of the enemy, millions of men like Bill are making good use of the military cartridges Western is producing for them.

They know how Western ammunition shoots and are looking forward to the days when they can hunt game in peaceful fields and woods at home, with Western Super-X and Xpert ammunition . . . Western Cartridge Company, East Alton, Illinois.

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